North Dakota Health Careers

Content Standards

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North Dakota Department of Career and Technical Education
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The North Dakota State Board of Career and Technical Education has reviewed this standards document, approved the content, and officially adopted the material until 2010.
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Introduction

Goal

The North Dakota Department of Career and Technical Education is committed to working on standards to ensure that each program area can offer courses that allow students to acquire knowledge and skills. CTE not only provides technical skills and knowledge for students to succeed in careers, but also cross-functional workplace skills such as teamwork, problem solving, the ability to find and use information, and provide the context in which traditional educational goals and academic skills can be enhanced.

Process

The standards process is one that directly involves the state supervisor(s), the curriculum administrator for this agency, and teachers working directly with the content at hand. Once the standards are written and expectations are clearly defined, the standards are then compared and ultimately aligned with national and industry standards.

Academic Integration

The Department of Career and Technical Education strongly believes in the importance of academic integration within each program area. The standards produced for each program area will be cross walked with the most current academic drafts of English Language Arts, Mathematics, and Science. When possible, standards will be cross walked with other academic areas that correspond.



Definitions

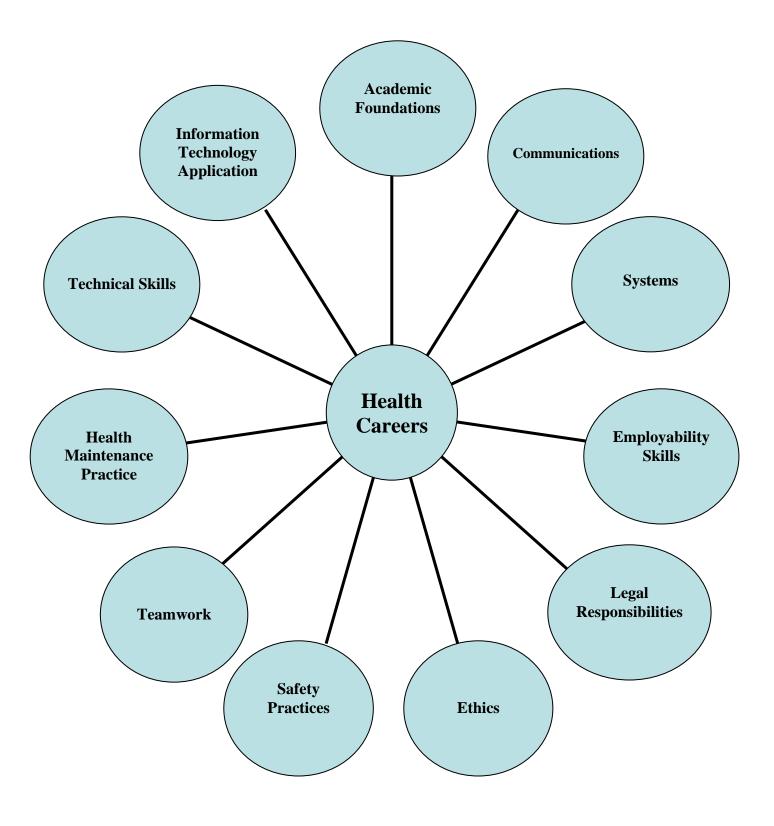
For each standard, there are one or more topic statements along with competencies for each topic. The competencies are categorized into three divisions: Introductory, Core, and Advanced. These divisions can further be defined as:

Introductory:	Knowledge Acquisition—Learners at this level expand awareness and build comprehension of knowledge.		
Core:	Application—Learners at this level experience acquired knowledge by applying it to situations and self.		
Advanced:	Reflection—Learners at this level analyze, synthesize, judge, assess, and evaluate knowledge in accord with their own goals, values, and beliefs, and/or real situations.		





Overview of Standards







Standards at a Glance

COMPREHENSIVE STANDARDS

1.0 ACADEMIC FOUNDATIONS

o Know the academic subject matter required for proficiency within their area. They will use this knowledge as needed in their student role. This includes reading, writing, mathematics, life sciences knowledge, using health care terminology, and being aware of the history of health care.

2.0 COMMUNICATION

Know the various methods of giving and obtaining information. They will communicate effectively orally, in writing, and electronically.

3.0 SYSTEMS

 Understand how the role of a health care worker relates to departments, organizations, and the overall health care environment. They will identify how key systems affect services performed and quality of care.

4.0 EMPLOYABILITY SKILLS

 Understand how employability skills enhance their employment opportunities and job satisfaction. They will demonstrate skills that support and maintain job functions and upgrade these skills as needed.

5.0 LEGAL RESPONSIBILITIES

O Understand the legal responsibilities, limitations, and implications of their actions within the health care delivery setting. They will perform their duties according to regulations, policies, laws and legislated rights of clients.

6.0 ETHICS

 Understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment. They will perform quality healthcare delivery.

7.0 SAFETY PRACTICES

 Understand the existing and potential hazards to clients, coworkers, and themselves. They will prevent injury or illness through safe work practices and will follow health and safety policies and procedures.

8.0 TEAMWORK

 Understand the roles and responsibilities of individual members as part of the healthcare team, including their ability to promote the delivery of quality healthcare. They will interact effectively and sensitively with all members of the healthcare team.

9.0 HEALTH MAINTENANCE PRACTICE

 Understand the fundamentals of wellness and the prevention of disease processes. They will be encouraged to practice preventative health behaviors.

10.0 TECHNICAL SKILLS

o Identify technical skills required for medical careers. They will demonstrate skills and knowledge as appropriate.

11.0 INFORMATION TECHNOLOGY APPLICATION

 Use information technology applications. They will demonstrate use as appropriate to healthcare applications.





Standard with Topics

CONTENT STANDARDS

1.0 ACADEMIC FOUNDATIONS

- o Know the academic subject matter required for proficiency within their area. They will use this knowledge as needed in their student role. This includes reading, writing, mathematics, life sciences knowledge, using health care terminology, and being aware of the history of health care.
 - 1.1 Recognize Human Structure and Function.
 - 1.2 Analyze Diseases and Disorders

2.0 COMMUNICATION

- o Know the various methods of giving and obtaining information. They will communicate effectively orally, in writing, and electronically.
 - 2.1 Practice Oral Communication.
 - 2.2 Demonstrate Written Communication.
 - 2.3 Utilize Electronic Communication.

3.0 SYSTEMS

- O Understand how the role of a health care worker relates to departments, organizations, and the overall health care environment. They will identify how key systems affect services performed and quality of care.
 - 3.1 Recognize Health Care Delivery System.

4.0 EMPLOYABILITY SKILLS

- o Understand how employability skills enhance their employment opportunities and job satisfaction. They will demonstrate skills that support and maintain job functions and upgrade these skills as needed.
 - 4.1 Develop Employability Skills.
 - 4.2 Exercise Interpersonal Communications.
 - 4.3 Foster Personal Growth and Development.
 - 4.4 Participate in Career Decision-Making.

5.0 LEGAL RESPONSIBILITIES

- o Understand the legal responsibilities, limitations, and implications of their actions within the health care delivery setting. They will perform their duties according to regulations, policies, laws and legislated rights of clients.
 - 5.1 Relate Legal Implications to Health Careers.
 - 5.2 Use Legal Practices.

6.0 ETHICS

- o Understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment. They will perform quality healthcare delivery.
 - 6.1 Identify Legal and Ethical Boundaries.
 - 6.2 Exercise Ethical Practice.





CONTENT STANDARDS CONTINUED...

7.0 SAFETY PRACTICES

- o Understand the existing and potential hazards to clients, coworkers, and themselves. They will prevent injury or illness through safe work practices and will follow health and safety policies and procedures.
 - 7.1 Perform Infection Control.
 - 7.2 Practice Personal Safety.
 - 7.3 Recognize Environmental Safety.
 - 7.4 Identify Common Safety Hazards.
 - 7.5 Use Emergency Procedures and Protocols.

8.0 TEAMWORK

- Understand the roles and responsibilities of individual members as part of the healthcare team, including their ability to promote the delivery of quality healthcare. They will interact effectively and sensitively with all members of the healthcare team.
 - 8.1 Participate in Healthcare Teams.
 - 8.2 Engage in Team Member Participation.

9.0 HEALTH MAINTENANCE PRACTICE

- o Understand the fundamentals of wellness and the prevention of disease processes. They will be encouraged to practice preventative health behaviors.
 - 9.1 Describe Health Behaviors.

10.0 TECHNICAL SKILLS

- o Identify technical skills required for medical careers. They will demonstrate skills and knowledge as appropriate.
 - 10.1 Implement Occupational Safety.
 - 10.2 Learn Skills Development in Laboratory or Clinical Setting.

11.0 INFORMATION TECHNOLOGY APPLICATION

- o Use information technology applications. They will demonstrate use as appropriate to healthcare applications.
 - 11.1 Utilize Communication Technology.
 - 11.2 Use Referencing Skills.





Standard 1: Academic Foundations – Know the academic subject matter required for proficiency within their area. They will use this knowledge as needed in their student role. This includes reading, writing, mathematics, life sciences knowledge, using health care terminology, and being aware of the history of health care.

Topic 1: Recognize Human Structure and Function.

Student Competencies

Introductory

- 1.1.1 Describe the basic structure and functions of cells, tissues, organs and systems across the life span.
- 1.1.2 Identify and describe the physical, emotional and social changes associated with each life stage and the stages of grieving.
- 1.1.3 Construct and define basic medical terminology suffixes, prefixes, roots and abbreviations.

Core

- 1.1.4 Explain body planes, quadrants, directional terms and
- 1.1.5 Analyze the interdependence of the body systems as they relate to wellness, disease, disorders, therapies and care rehabilitation.

Keys to Employability

Basic Skills

- 1. Reading→ Locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.
- 2. Writing→ Communicates thoughts, ideas, information, and messages in writing; and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.
- 3. Arithmetic/Mathematics→ Performs basic computations and approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- 4. Listening→ Receives, attends to, interprets, and responds to verbal messages and other cues.
- 5. Speaking→ Organizes ideas and communicates orally.

Thinking Skills

- 1. Creative Thinking → Generates new ideas.
- 2. Decision Making→ Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- 3. Problem Solving→ Recognizes problems and devises and implements plan of action.
- 4. Seeing Things in the Mind's Eye→ Organizes, processes symbols, pictures, graphs, objects, and other information.
- 5. Knowing How to Learn → Uses efficient learning techniques to acquire and apply new knowledge and
- 6. Reasoning→ Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.





Standard 1: Academic Foundations – Know the academic subject matter required for proficiency within their area. They will use this knowledge as needed in their student role. This includes reading, writing, mathematics, life

sciences knowledge, using health care terminology, and being aware of the history of health care.

Topic 2: Analyze Diseases and Disorders

Student Competencies

<u>Introductory</u>

1.2.1 Compare selected diseases and disorders: respective classifications, causes, diagnoses, therapies and care rehabilitation to include biotechnological applications.

Keys to Employability

Technology

- 1. Select Technology → Chooses procedures, tools, or equipment, including computers and related technologies.
- 2. Applies Technology to Task → Understand overall intent and proper procedures for setup and operation of equipment.
- 3. Maintains and Troubleshoots Equipment → Prevents identifies, or solves problems with equipment, including computers, and other technologies.

Resources

- 1. Time→ Selects goal-relevant activities, ranks them, allocates time, and prepares and follows schedules.
- 2. Money→ Uses or prepares budgets, makes forecasts, keeps records, and makes adjustments to meet objectives.
- 3. Material and Facilities→ Acquires, stores, allocates, and uses materials or space efficiently.
- Human Resources→ Assesses skills and distributes work accordingly, evaluates performance and provides feedback.

Interpersonal

- 1. Participates as a Member of a Team → Contributes to group efforts.
- 2. Teaches Others New Skills.
- 3. Serves Client/Customers → Works to satisfy customer's expectations.
- 4. Exercises Leadership → Communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.





Standard 1: Academic Foundations – Know the academic subject matter required for proficiency within their area. They will use this knowledge as needed in their student role. This includes reading, writing, mathematics, life sciences knowledge, using health care terminology, and being aware of the history of health care.

Academic Cross Walk

English Language Arts

9.1.1	Choose a broad topic, state the problem, or question.
9.1.2	Formulate a preliminary thesis statement.
9.1.3	Cross-reference information.
9.1.4	Evaluate relevancy of information.
9.1.5	Organize information from a variety of sources; e.g.,
	chronological.
9.1.6	Summarize information.
9.1.7	Identify and avoid plagiarism.
9.1.9	Use graphic organizer.
9.2.16	Build vocabulary by reading a variety of grade-level
	texts and applying new vocabulary.
9.3.12	Use technology; e.g., publishing software and graphic
	programs, to present written work.
9.4.2	Use visual aides effectively in oral presentations.
9.4.3	Use notes and manuscripts to make oral presentations.
9.4.4	Engage in a group discussion.
9.4.5	Use critical listening skills; i.e., reflection.
10.1.2	Know ways to effectively search electronic databases;
	e.g., defining key terms and using limiters to focus a
	search.
10.1.3	Gather reliable information to support a thesis.
10.1.4	Use relevant information.
10.1.5	Organize information from a variety of sources into a
10.1.6	unified whole.
10.1.6	Use a style sheet, such as MLA or APA, for citing
10.1.7	primary and secondary sources.
10.1.7 10.1.9	Paraphrase information. Develop an outline.
10.1.9	Write a research paper.
10.1.10	Present research information; e.g., informative speech,
10.1.11	PowerPoint presentation, video-presentation.
10.3.2	Defend a personal opinion using facts as support.
10.3.2	Use appropriate body language in oral presentations.
10.4.3	Formulate questions in response to a verbal message.
11.1.11	Research topics independently using appropriate
1111111	sources.
11.1.2	Evaluate and incorporate information from primary
	sources; e.g., interviews and surveys.
11.1.4	Verify the quality, accuracy, and usefulness of
	information.
11.1.5	Synthesize information in a logical sequence
11.1.7	Evaluate the research process & develop strategies for
	improving it; e.g., correct use of research format,
	accuracy of research, organization of information &
	use of sources.
1	

English Language Arts - Cont.

Identify techniques used in persuasive writing including inductive reasoning and propaganda.

	merading maderive reasoning and propaganda.
11.3.8	Incorporate visual aids (e.g., graphs, tables, and
	pictures) into written work to enhance meaning.
11.4.2	Adapt to a variety of speaking and listening
	situation such as formal presentations, oral
	interpretations, and group discussions.
12.1.1	Plan a research strategy.
12.1.2	Determine purpose; e.g., inform, persuade.
12.1.3	Develop a research question.
12.1.5	Evaluate the research process and apply strategies to
	a variety of writing purposes; e.g., correct use of
	research format, accuracy of research, organization
	of information and use of sources.
12.2.8	Use technical language/jargon to decipher meaning

group discussions.





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Academic Cross Walk

Mathematics

Express numbers between one-hillionth and one

9-10.1.1	Express numbers between one-billionth and one
	billion in fraction, decimal, & verbal form; express
	numbers of all magnitudes in scientific notation.
9-10.1.4	Represent a set of data in a matrix.
9-10.1.8	Apply estimation skills to predict realistic solutions
	to problems.
9-10.1.9	Select and use a computational technique (i.e.,
	mental calculation, paper-and-pencil, or
	technology) to solve problems involving real
	numbers.
9-10.1.11	Add, subtract, and perform scalar multiplication on
	matrices.
9-10.4.1	Select appropriate units and scales for problem
	situations involving measurement.
9-10.4.6	Employ estimation techniques to evaluate
	reasonableness of results in measurement
	situations.
9-10.5.8	Manipulate algebraic expressions and equations
	using properties of real numbers, e.g., simplify,
	factor.
9-10.5.12	Graphically represent the solution or solutions to an
	equation, inequality, or system.
9-10.5.13	Interpret a graphical representation of a real-world
	situation.
9-10.5.15	Approximate and interpret rates of change from
	graphical and numerical data.
11-12.1.7	Add, subtract, and multiply complex numbers.
11-12.1.8	Multiply matrices containing no more than three rows
	or columns without the use of technology
	situations involving measurement.

Science

9-10.1.1	Explain how models can be used to illustrate
	scientific principles.
9-10.1.2	Describe the interaction of components within a
7 10.11.2	system (e.g., interactions between living and non-
	living components of an ecosystem, interaction
	between organelles of a cell).
9-10.1.3	Explain how a system can be dynamic yet may
	remain in equilibrium (e.g., water cycle, rock cycle,
	population).
9-10.1.4	Describe the relationship between form and function
	(e.g., solids, liquids, gases, cell specialization,
	simple machines and plate tectonics).
9-10.1.5	Explain how classification can be based on the
	relationship between form and function (e.g.,
	elements and compounds, biological classification,
	types of clouds).
9-10.1.6	Identify principles governing evolution and
	equilibrium within systems (e.g., cause and effect,
	positive and negative feedback).
9-10.2.1	Explain how scientific investigations can result in
	new ideas.
9-10.2.2	Use appropriate safety equipment and precautions
	during investigations (e.g., goggles, apron, eye wash
	stations).
9-10.2.3	Identify questions and concepts that guide scientific
	investigations.
9-10.2.5	Identify the independent and dependent variables,
	the control, and the constants when conducting an
	experiment.
9-10.2.6	Design and conduct a guided investigation.
9-10.2.7	Maintain clear and accurate records of scientific
	investigations.
9-10.2.8	Analyze data found in tables, charts and graphs
	to formulate conclusions.
9-10.3.2	Classify changes in matter as physical or chemical.
9-10.3.9	Compare and contrast electromagnetic & mechanical
	waves (i.e., energy, energy transfer, medium).
9-10.4.1	Relate cell function to cell structure (i.e., cell wall,
	cell membrane, nucleus, mitochondria, chloroplast).
9-10.4.2	Relate the functions of cells in multicellular
	organisms to their cell type (e.g., nerve cells, blood
	cells, guard cells).

Relate DNA, genes, and chromosomes. Explain the relationship between spontaneous

changes in DNA and a source of genetic variation.



9-10.4.4

9-10.4.5



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Academic Cross Walk

Science – Cont.

0.10.4.6	
9-10.4.6	Compare & contrast the results of mitosis & meiosis
	(i.e., mitosis involves a nuclear division that results in
	two daughter nuclei that are identical to the parent
	nucleus; meiosis involves two nuclear divisions that
	result in gametes cells containing half the number of
	chromosomes).
9-10.4.7	Apply the basic concepts of genetics to predict
	inherited traits (i.e., segregation, independent
0.10.40	assortment, dominant and recessive traits).
9-10.4.8	Relate the concept of natural selection to its
	evolutionary consequences.
9-10.5.3	Explain how energy in the Earth system is governed
	by convection, conduction, and radiation (e.g., heat
	moves in the Earth's mantle by convection, conduction
	occurs along the mid-oceanic ridges, energy from the
	Sun reaches the Earth through radiation).
9-10.6.1	Use appropriate technologies and techniques to solve a
	problem (e.g., computer-assisted tools, Internet,
	research skills).
9-10.6.2	Explain how scientific principles have been used to
9-10.0.2	
	create common technologies (e.g., household
	appliances, automotive parts, agricultural equipment,
	textiles, computers, Internet resources, CD-ROMs).
9-10.6.3	Explain how emerging technologies (e.g., genetic
	manipulations, biofuels, and hydrogen fuels) may
	impact society and the environment.
9-10.7.1	Explain how personal health is related to fitness,
	substance abuse, sexual activity, and nutrition.
9-10.7.2	Identify factors that affect populations (e.g., food
	webs, carrying capacity, overpopulations, disease,
	food supply, algal blooms, resources, conservation
	practices).
9-10.8.1	Identify the role of scientists in theoretical & applied
7-10.0.1	science (e.g., careers, employment possibilities).
9-10.8.2	
9-10.8.2	Identify the human characteristics that influence
	scientific advancement (e.g., intellectual honesty
	openness, objectivity, curiosity, skepticism,
	ethical conduct, cooperation).
9-10.8.3	Explain how individuals and groups, from different
	disciplines in and outside of science, contribute to
	science at different levels of complexity).
9-10.8.4	Identify theories that have changed over time (e.g.,
	alchemy, atomic structure, model of the solar system.
9-10.8.5	Explain how views & attitudes have influenced the
10.0.5	development of science (e.g., religion, previous know-
	ledge, cultural tradition, superstition, folklore legends).
	reage, cultural tradition, superstition, folklore legends).

Health

- 12.2.1 Understand the interrelationships of intellectual, emotional, social, spiritual, and physical health throughout life.
- 12.2.4 Understand the social, political, and economic effects of disease on individuals, families and communities.
- 12.3.1 Know how the community, media, and technology can influence the health of individuals.
- 12.3.4 Know how public health policies and government regulations impact health-related issues.





Topic 1: Practice Oral Communication.

Student Competencies

Introductory

- 2.1.1 Identify and demonstrate basic communication skills (observation, listening, verbal and nonverbal).
- 2.1.2 Apply active listening skills using reflection, restatement, and clarification techniques.
- 2.1.3 Demonstrate interviewing skills.
- 2.1.4 Interpret verbal and nonverbal behavior to augment communication.

Core

- 2.1.5 Describe the impact of family, community, and other cultural diversity in the community process in the communication process.
- 2.1.6 Apply the elements of communication using the sender-receiver method.
- 2.1.7 Interpret and communicate using medical terminology.
- 2.1.8 Demonstrate courtesy to others, including self-introduction.

Keys to Employability

Personal Qualities

- 1. Responsibility → Exerts a high level of effort and perseveres towards goal attainment.
- 2. Self-Esteem → Believes in own self worth and maintains a positive view of self.
- 3. Sociability → applies it when solving a problem. friendliness, adaptability, empathy, and politeness in group setting.
- 4. Self-Management → Assesses self accurately, sets personal goals, monitors progress, and exhibits self-control.
- 5. Integrity/Honesty → Chooses ethical courses of action.

Systems

- 1. Understands Systems → Knows how social, organizational, and technological systems work and operates effectively with them.
- 2. Monitors and Corrects Performance → Distinguishes trends, predicts impacts on system operations, diagnoses deviations in systems' performance and corrects malfunctions.
- 3. Improves or Designs Systems → Suggests modifications to existing systems and develops new or alternative systems to improve performance. corrects malfunctions.

Information

- 1. Acquires and Evaluates Information.
- 2. Organizes and Maintains Information.
- 3. Interprets and Communicates Information.
- 4. Uses Computers to Process Information.





Topic 2: Demonstrate Written Communication.

Student Competencies

Introductory

2.2.1 Report relevant information in order of occurrence in an objective and subjective manner.

Core

- 2.2.2 Organize, read, write, and compile technical information and summaries in clinical and classroom settings.
- 2.2.3 Use medical terminology within a scope of practice in order to interpret, transcribe and communicate information, data, and observations.

Keys to Employability

Basic Skills

- 1. Reading → Locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.
- 2. Writing → Communicates thoughts, ideas, information, and messages in writing; and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.
- 3. Arithmetic/Mathematics → Performs basic computations and approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- 4. Listening → Receives, attends to, interprets, and responds to verbal messages and other cues.
- 5. Speaking → Organizes ideas and communicates orally.

Thinking Skills

- 1. Creative Thinking \rightarrow Generates new ideas.
- 2. Decision Making → Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- 3. Problem Solving → Recognizes problems and devises and implements plan of action.
- 4. Seeing Things in the Mind's Eye → Organizes, processes symbols, pictures, graphs, objects, and other information.
- Knowing How to Learn → Uses efficient learning techniques to acquire and apply new knowledge and skills.
- 6. Reasoning → Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.





Topic 3: Utilize Electronic Communication.

Student Competencies

Core

2.3.1 Utilize HIPAA guidelines when handling health sensitive information through technology in a healthcare setting.

Keys to Employability

Technology

- 1. Select Technology → Choose procedures, tools, or equipment, including computers and related technologies.
- 2. Applies Technology to Task → Understand overall intent and proper procedures for setup and operation of equipment.
- 3. Maintains and Troubleshoots Equipment → Prevents identifies, or solves problems with equipment, including computers, and other technologies.

Resources

- 1. Time → Selects goal-relevant activities, ranks them, allocates time, and prepares and follows schedules.
- 2. Money → Uses or prepares budgets, makes forecasts, keeps records, and makes adjustments to meet objectives.
- 3. Material and Facilities → Acquires, stores, allocates, and uses materials or space efficiently.
- 4. Human Resources → Assesses skills and distributes work accordingly, evaluates performance and provides feedback.

<u>Interpersonal</u>

- 1. Participates as a Member of a Team → Contributes to group efforts.
- 2. Teaches Others New Skills.
- 3. Serves Client/Customers → Works to satisfy customer's expectations.
- 4. Exercises Leadership → Communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.





Academic Cross Walk

English Language Arts

9.1.1	Choose a broad topic, state the problem, or question.
9.1.2	Formulate a preliminary thesis statement.
9.1.3	Cross-reference information.
9.1.4	Evaluate relevancy of information.
9.1.5	Organize information from a variety of sources;
	e.g., chronological.
9.1.6	Summarize information.
9.1.7	Identify and avoid plagiarism.
9.1.9	Use graphic organizer.
9.2.16	Build vocabulary by reading a variety of grade-level
	texts and applying new vocabulary.
9.3.2	Write descriptive and narrative compositions; e.g.,
	journals, personal letters, biographies, short stories,
	autobiographical sketches, one-act plays, and poetry.
9.3.12	Use technology; e.g., publishing software and graphic
	programs to present written work.
9.4.1	Analyze the audience & adjust message & wording to
	suit purpose.
9.4.2.	Use visual aides effectively in oral presentations.
9.4.3	Use notes and manuscripts to make oral presentations.
9.4.4	Engage in a group discussion.
9.4.5	Use critical listening skills; i.e., reflection.
9.6.2	Use conventions of grammar related to parts of speech;
	i.e., verb tense and agreement.
9.6.3	Use conventions of punctuation.
10.1.1	Form questions to focus research.
10.1.2	Know ways to effectively search electronic databases;
	e.g., defining key terms and using limiters to focus a
	search.
10.1.3	Gather reliable information to support a thesis.
10.1.4	Use relevant information.
10.1.5	Organize information from a variety of sources into a
	unified whole.
10.1.6	Use a style sheet, such as MLA or APA, for citing
	primary and secondary sources.
10.1.7	Paraphrase information.
10.1.9	Develop an outline.
10.1.10	Write a research paper.
10.1.11	Present research information; e.g., informative speech,
	PowerPoint presentation, video presentation.
10.3.2	Defend a personal opinion using facts as support.
10.4.1	Analyze the audience and adjust message and wording
10.42	to suit the purpose.
10.4.2	Use appropriate body language in oral presentations.
10.4.3	Formulate questions in response to a verbal message.
11.1.4	Verify the quality, accuracy and usefulness of
	information.

English Language Arts - Cont.

11.1.5	Synthesize information in a logical sequence.
11.1.7	Evaluate the research process and develop
	strategies for improving it; e.g., correct use of
	research format, accuracy of research,
	organization of information and use of sources.
11.3.8	Incorporate visual aids (e.g., graphs, tables, and
	pictures) into written work to enhance meaning.
11.4.1	Analyze the audience and adjust message and
	wording to suit the purpose.
11.4.2	Adapt to a variety of speaking and listening
	situations such as formal presentations, oral
	interpretations, & group discussions.
11.6.1	Use conventions of grammar, usage, and
	punctuation to edit and revise.
12.1.1	Plan a research strategy.
12.1.2	Determine purpose; e.g., inform, persuade.
12.1.3	Develop a research question.
12.1.5	Evaluate the research process & apply strategies
	to a variety of writing purposes; e.g., correct use
	of research format, accuracy of research,
	organization of information & use of sources.
12.2.8	Use technical language/jargon to decipher
	meaning.
12.3.1	Write business or other formal documents,
	including resumes, scholarship letters, and letters
	of inquiry or complaint.
12.4.1	Evaluate audience based on social characteristics;
	e.g., religion, culture, and gender.
12.4.2	Use tone, inflection, pitch, and emphasis
122	effectively in oral presentation.
12.4.3	Analyze the audience and adjust message and
121.10	wording to suit the audience while speaking.
12.6.1	Use conventions of grammar, usage, and
12.0.1	punctuation to edit and revise.
	punctuation to cart and levise.





Academic Cross Walk

Mathematics

Science

None	9-10.2.2	Use appropriate safety equipment & precautions
		during investigations (e.g., goggles, apron, eye
	0.10.2.6	wash station).
	9-10.2.6	Design and conduct a guided investigation.
	9-10.2.7	Maintain clear and accurate records of scientific investigations.
	9-10.4.1	Relate cell function to cell structure (i.e., cell wall
)-10.4.1	cell membrane, nucleus, mitochondria,
		chloroplast).
	9-10.4.2	Relate the functions of cells in multicellular
		organisms to their cell type (e.g., nerve cells,
		blood cells, guard cells).
	9-10.4.4	Relate DNA, genes, and chromosomes.
	9-10.4.8	Relate the concept of natural selection to its
		evolutionary consequences.
	9-10.6.1	Use appropriate technologies and techniques to
		solve a problem (e.g., computer-assisted tools,
	11-12.2.2	Internet, research skills). Select & use appropriate instruments, measuring
	11-12.2.2	tools, and units of measure to improve scientific
		investigations.
	11-12.2.3	Use data from scientific investigations to accept
		or reject a hypothesis.
	11-12.2.5	Use technology and mathematics to improve
		investigations and communications.
	11-12.2.6	Analyze data using appropriate strategies (e.g.,
		interpolation, and extrapolation of data,
	11 10 2 0	significant figures, dimensional analysis).
	11-12.2.8 11-12.4.1	Communicate and defend a scientific argument. Explain the importance of cell differentiation in
	11-12.4.1	the development of tissues, organs, organ
		systems, and multicellular organisms.
	11-12.4.2	Explain how types of DNA technology (e.g.,
		genetic engineering, forensic science, cloning)
		may impact society now and in the future.
	11-12.4.3	Explain how change through time has ensured
		adaptation to changing environments.
	11-12.6.1	Select and use appropriate technologies, tools &
		techniques to solve a problem (e.g., computer-
		assisted tools, Internet, research skills, CBL,
	11-12.6.3	graphing calculators).
	11-12.0.3	Explain how designing and implementing technology requires weighing trade-offs between
		positive and negative impacts on humans and
		the environment.
	11-12.7.4	Explain how science & technology can influence
]	personal industrial & cultural decision making



personal, industrial, & cultural decision-making.



Standard 2: Communication – Know the various methods of giving and obtaining information. They will communicate effectively orally, in writing, and electronically.

Academic Cross Walk

Health

- Understand how cultural diversity enriches and 12.3.2 challenges health behaviors.
- 12.5.3 Know possible causes of conflicts in schools, families and communities and strategies to prevent conflict in these situations.
- 12.5.4 Know how refusal, negotiation, and collaboration skills can be used to avoid potentially harmful situations.
- Know how to express information and opinions about 12.7.1 health issues.
- 12.7.2 Know how individuals can improve or maintain community health.
- Know how to influence and support others in making 12.7.3 positive health choices.
- 12.7.4 Know how to work cooperatively when advocating for healthy communities.





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Standard 3: Systems – Understand how the role of a health care worker relates to departments, organizations, and the overall health care environment. They will identify how key systems affect services performed and quality of care.

Topic 1: Recognize Health Care Delivery System.

Student Competencies

Core

- 3.1.1 Identify and describe history, evolution, and trends of the health care delivery system model.
- 3.1.2 Analyze and predict how factors such as cost, managed care, technology, aging population, access to care, alternative therapies, lifestyle, and behavior changes may affect various healthcare delivery models.
- 3.1.3 Identify the basic health care career clusters or pathways (i.e. therapeutic, diagnostic, health informatics, support services, and biotechnology, research and development.)

Keys to Employability

Personal

- 1. Responsibility → Exerts a high level of effort and perseveres toward goal attainment.
- 2. Self-Esteem → Believes in own self worth and maintains a positive view of self.
- 3. Sociability → Demonstrates understanding, friendless, adaptability, empathy, and politeness in group setting.
- 4. Self-Management → Assesses self accurately, sets personal goals, monitors progress, and exhibits self-control.
- 5. Integrity/Honesty → Chooses ethical courses of action.

Systems

- 1. Understands Systems → Knows how social, organizational, and technological systems work and operates effectively with them.
- Monitors and Corrects Performance → Distinguishes trends, predicts impacts on system operations, diagnoses deviations in systems' performance and corrects malfunctions.
- 3. Improves or Designs Systems → Suggests modifications to existing systems and develops new

Information

- 1. Acquires and Evaluates Information.
- 2. Organizes and Maintains Information.
- 3. Interprets and Communicates Information.
- 4. Uses Computers to Process Information.





9.1.2

Standard 3: Systems – Understand how the role of a health care worker relates to departments, organizations, and the overall health care environment. They will identify how key systems affect services performed and quality of care.

Academic Cross Walk

English Language Arts

Formulate a preliminary thesis statement.

9.1.3 Cross-reference information. 9.1.4 Evaluate relevancy of information. 9.1.5 Organize information from a variety of sources; e.g., chronological. Build vocabulary by reading a variety of grade-9.2.16 level texts and applying new vocabulary. 9.4.4 Engage in group discussion. Use critical listening skills; i.e., reflection. 9.4.5 Use relevant information. 10.1.4 11.2.10 Use etymology to define words. 12.2.8 Use technical language/jargon to decipher meaning.

Health

12.2.4	Understand the social, political, and economic
	effects of disease on individuals, families and
	communities.
1221	
12.3.1	Know how the community, media & technology
	can influence the health of individuals.
12.3.4	Know how public health policies & government
	regulations impact health-related issues.
12.6.1	Know how to access health information,
	products, and services outside the community.
12.6.2	Know factors that influence personal selection
	of health care resources, products and services.
12.6.3	Know how to evaluate resources from home,
	school, and the community that present health
	information, products, and services.
12.6.4	Understand the cost & accessibility of a variety
	of health care services.
12.6.5	Know situations that require professional health
	services in the areas of prevention, treatment,
	and rehabilitation.
12.6.6	Know local, state, federal and private agencies
	that protect and/or inform the consumer.
12.7.4	Know how to work cooperatively when
	advocating for healthy communities.
	as sound for nothing communities.





Standard 3: Systems – Understand how the role of a health care worker relates to departments, organizations, and the overall health care environment. They will identify how key systems affect services performed and quality of care.

Academic Cross Walk

Science

Science - Cont.

9-10.1.1	Explain how models can be used to illustrate
	scientific principles.
9-10.1.2	Describe the interaction of components within a
	system (e.g., interactions between living and non-
	living components of an ecosystem, interaction
	between organelles of a cell).
9-10.1.5	Explain how classification can be based on the
	relationship between form and function (e.g.,
	elements & compounds, biological classifications,
	types of clouds).
9-10.6.3	Explain how emerging technologies (e.g., genetic
	manipulations, biofuels, & hydrogen fuels) may
	impact society and the environment.
9-10.8.2	Identify the human characteristics that influence
	scientific advancement (e.g., intellectual honesty,
	openness, objectivity, curiosity, skepticism, ethical
	conduct, cooperation).
9-10.8.5	Explain how views & attitudes have influenced the
7 10.0.0	development of science (e.g., religion, previous
	knowledge, cultural tradition, superstition, folklore
	legends).
11-12.1.1	Explain how scientists create and use models to
11 12.1.1	address scientific knowledge.
11-12.1.2	Identify the structure, organization, and dynamics
11-12.1.2	of components within a system (e.g., cells, tissue,
	organs, organ systems, reactants and products in
	chemical equilibrium).
11-12.1.5	Explain how classification can be based on the
11-12.1.3	relationship between form and function (e.g., polar
	vs. nonpolar molecules, structure of periodic table, DNA vs. RNA).
11 12 4 2	
11-12.4.2	Explain how types of DNA technology (e.g.,
	genetic engineering, forensic science, cloning) may
11 10 40	impact society now and in the future.
11-12.4.3	Explain how change through time has ensured
11 12 6 2	adaptation to changing environments.
11-12.6.3	Explain how designing and implementing
	technology requires weighing trade-offs between
	positive and negative impacts on humans and the
	environment.
1	

- 11-12.7.4 Explain how science and technology can influence personal, industrial, and cultural decision-making (e.g., organ transplant, cloning, stem cell research genetic manipulation, use of genetic profile, archeological discoveries, land management, resource management).
- Identify the criteria that scientific explanations 11-12.8.1 must meet to be considered valid (e.g., must be based on consistent and repeatable data, be consistent with experimental and observational evidence about nature, make accurate predictions about systems being studied, be logical, report, methods and results, be open to question and reexamination, respect rules of evidence).





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Standard 3: Systems – Understand how the role of a health care worker relates to departments, organizations, and the overall health care environment. They will identify how key systems affect services performed and quality of care.

Academic Cross Walk

Mathematics

9-10.1.8	Apply estimation skills to predict realistic solutions to
	problems.
9-10.1.9	Select and use a computational technique (i.e., mental
9-10.1.9	
	calculations, paper-and-pencil, or technology) to
	solve problems involving real numbers.
11-12.1.7	Add, subtract, and multiple complex numbers.
11-12.1.7	Add, subtract, and multiple complex numbers.





Topic 1: Develop Employability Skills.

Student Competencies

<u>Introductory</u>

- 4.1.1 Describe healthy lifestyles and compare with personal risk factors.
- 4.1.2 Interact appropriately and respectfully with diverse ethnic, age, cultural, religious, and socioeconomic groups in various.
- 4.1.3 Formulate solutions to problems using critical thinking skills (analyze, synthesize, evaluate) independently and in teams.
- 4.1.4 Develop a professional résumé to include educational and work experience, honors, awards, and other activities.

Core

- 4.1.5 Adopt personal and professional appearance and hygiene habits appropriate to the healthcare environment and industry expectations.
- 4.1.6 Demonstrate appropriate attitudes and behavior for healthcare workers.
- 4.1.7 Practice personal, professional, and leadership traits such as attendance, time management, etc. (employment and social situations).
- 4.1.8 Accept responsibility for one's own actions.
- 4.1.9 Evaluate work assignments and initiate actions with confidence that corresponds with the work assignment.
- 4.1.10 Observe and participate in career exploration, job shadowing, clinical activities and/or service learning.

Keys to Employability

Basic Skills

- Reading→ Locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.
- 2. Writing→ Communicates thoughts, ideas, information, and messages in writing; and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.
- 3. Arithmetic/Mathematics → Performs basic computations and approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- 4. Listening→ Receives, attends to, interprets, and responds to verbal messages and other cues.
- 5. Speaking→ Organizes ideas and communicates orally.

Thinking Skills

- 1. Creative Thinking → Generates new ideas.
- 2. Decision Making→ Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- 3. Problem Solving→ Recognizes problems and devises and implements plan of action.
- 4. Seeing Things in the Mind's Eye→ Organizes, processes symbols, pictures, graphs, objects, and other information.
- 5. Knowing How to Learn→ Uses efficient learning techniques to acquire and apply new knowledge and skills.
- 6. Reasoning→ Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.





Topic 2: Exercise Interpersonal Skills.

Student Competencies

<u>Introductory</u>

4.2.1 Interpret technical materials used for healthcare practices and procedures.

Core

- 4.2.2 Communicate in a straightforward, understandable, and timely manner.
- 4.2.3 Listen attentively to verbal instructions, requests, and other information to verify accuracy.
- 4.2.4 Provide written communication that is accurate and grammatically correct.

Keys to Employability

Technology

- Selects Technology → Chooses procedures, tools, or equipment, including computers and related technologies.
- 2. Applies Technology to Task → Understand overall intent and proper procedures for setup and operation of equipment.
- 3. Maintains and Troubleshoots Equipment → Prevents identifies or solves problems with equipment, including computers, and other technologies.

Resources

- 1. Time → Selects goal-relevant activities, ranks them, allocate time, and prepares and follows schedules.
- Money → Uses or prepares budgets, makes forecasts, keeps records, and makes adjustments to meet objectives.
- 3. Material and Facilities → Acquires, stores, allocates, and uses materials or space efficiently.
- 4. Human Resources → Assesses skills and distributes accordingly, evaluates performance and provides feedback.

Interpersonal

- 1. Participates as a Member of a Team → Contributes to group effort.
- 2. Teaches Others New Skills.
- 3. Serves Clients/Customers → Works to satisfy customers' expectations.
- Exercises Leadership → Communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies
- 5. Negotiates → Works toward agreements involving exchange of resources; resolves divergent interests.
- 6. Works with Diversity → Works well with men and women from diverse backgrounds.





Topic 3: Foster Personal Growth and Development.

Student Competencies

Introductory

4.3.1 Show enthusiasm and commitment by meeting expectations and priorities of the organization.

Core

- 4.3.2 Manage time, prioritize responsibilities, and meet specified completion deadlines.
- 4.3.3 Engage in continuous self-assessment and goal modifications for personal and professional growth, including professional and community involvement.
- Recognize constructive criticism or corrective action 4.3.4 to resolve conflict.
- 4.3.5 Identify and demonstrate personal and professional traits and characteristics.

Keys to Employability – Cont.

Personal Qualities

- 1. Responsibility → Exerts a high level of effort and perseveres towards goal attainment.
- 2. Self-Esteem → Believes in own self worth and maintains a positive view of self.
- 3. Sociability → Demonstrates understanding, friendliness, adaptability, empathy, and politeness in group setting.
- 4. Self-Management → Assesses self accurately, sets personal goals, monitors progress, and exhibits self-Control.
- 5. Integrity/Honesty → Chooses ethical courses of action.

Systems

- 1. Understand Systems → Knows how social, organizational and technological systems work and operates effectively with them.
- 2. Monitors and Corrects Performance → Distinguishes trends, predicts impacts on system operations, diagnoses deviations in systems' performance and correct malfunctions.
- 3. Improves or Designs Systems → Suggests modifications to existing systems and develops new or alternative systems to improve performance.

Information

- 1. Acquires and Evaluates Information.
- 2. Organizes and Maintains Information.
- 3. Interprets and Communicates Information.
- 4. Uses Computers to Process Information.





Topic 4: Participate in Career Decision-Making.

Student Competencies

Core

- 4.4.1 Identify and describe career specialties under health science career pathways: diagnostic, therapeutic, health informatics, support services, biotechnology research and development.
- 4.4.2 Explore a potential health science career in at least one of the following health science pathways: diagnostic, therapeutic, health informatics, support services, biotechnology, research and development.
- 4.4.3 Consider levels of education, credentialing requirements, employment opportunities, workplace environment, and future outlook for a career pathway.





Academic Cross Walk

English Language Arts

9.1.2 Formulate a preliminary thesis statement.

- Cross-reference information 9.1.3
- 9.1.4 Evaluate relevancy of information.
- 9.1.5 Organize information from a variety of sources; e.g., chronological.
- 9.2.16 Build vocabulary by reading a variety of grade-level texts and applying new vocabulary.
- 9.4.1 Analyze the audience and adjust message and wording to suit purpose.
- 9.4.4 Engage in a group discussion.
- 9.4.5 Use critical listening skills; i.e., reflection.
- 9.6.2 Use conventions of grammar related to parts of speech; i.e., verb tense and agreement.
- 9.6.3 Use conventions of punctuation.
- 10.1.4 Use relevant information.
- Analyze the audience and adjust message and wording to 10.4.1
- Use conventions of grammar, usage and punctuation to 11.6.1 edit and revise.
- 12.2.8 Use technical language/jargon to decipher meaning.
- Write business or other formal documents, including 12.3.1 resumes, scholarship letters, and letters of inquiry or
- 12.4.2 Use tone, inflection, pitch, and emphasis effectively in oral presentations.
- 12.4.3 Analyze the audience and adjust message and wording to suit the audience while speaking.
- 12.4.4 Use critical listening responses, such as refutation and commentary to critique the accuracy of messages.
- 12.6.1 Use conventions of grammar, use, and punctuation to edit and revise.

Health

- Know how to assess behaviors and their relationships to health promotion and disease prevention.
- 12.3.2 Understand how cultural diversity enriches and challenges health behaviors.
- Understand how the physical environment 12.3.3 influences the health of the community.
- 12.3.4 Know how public health policies and government regulations impact health-related issues.
- 12.5.4 Know how refusal, negotiation, and collaboration skills can be used to avoid potentially harmful situations.
- 12.4.4 Know how to apply a problem-solving process to enhance and/or protect health.
- 12.7.1 Know how to express information and opinions about health issues.
- 12.7.2 Know how individuals can improve or maintain community health.
- 12.7.3 Know how to influence and support others in making positive health choices.
- 12.7.4 Know how to work cooperatively when advocating for healthy communities.





Academic Cross Walk

Mathematics

9-10.1.4 Represent a set of data in a matrix. 9-10.1.8 Apply estimation skills to predict realistic solutions to problems. 9-10.1.9 Select and use a computational technique (i.e., mental calculation, paper-and-pencil, or technology) to solve problems involving real numbers. 11-12.1.7 Add, subtract, and multiply complex numbers. 11-12.3.1 Choose, construct and interpret a display to represent a set of data. Make predictions based on the theoretical 11-12.3.2 probabilities and experimental results. Select, calculate, and use appropriate measures 11-12.3.3 of central tendency and spread (i.e., mean, median, mode range, and quartiles) to draw meaningful conclusions about a set of data.

Science

9-10.6.1	Use appropriate technologies and techniques
	to solve a problem (e.g., computer-assisted
	tools, Internet, research skills).
9-10.6.2	Explain how scientific principles have been
	used to create common technologies (e.g.,
	household appliances, automotive parts,
	agricultural equipment, textiles, fabrics,
	computers, Internet resources, CD-ROMs).
9-10.8.3	Explain how individuals and groups, from
	different disciplines in and outside of science,
	contribute to science at different levels of
	complexity.
9-10.8.4	Identify theories that have changed over time
	(e.g., alchemy, atomic structure, model of the
	solar system).
11-12.6.1	Select and use appropriate technologies, tools
	& techniques to solve a problem (e.g.,
	computer-assisted tools, Internet, research
	skills, CBL, graphing calculators).
11-12.6.2	Identify examples of how new technologies
	advance science.





Standard 5: Legal Responsibilities – Understand the legal responsibilities, limitations, and implications of their actions within the health care delivery setting. They will perform their duties according to regulations, policies, laws and legislated rights of clients.

Topic 1: Relate Legal Implications to Health Careers.

Student Competencies

<u>Introductory</u>

- 5.1.1 Use problem solving techniques when confronted with legal dilemmas or issues.
- 5.1.2 Compare and contrast behaviors that could result in malpractice, liability, or negligence.

Core

- 5.1.3 Comply with facility policies and procedures.
- 5.1.4 Comply with established risk management criteria.
- 5.1.5 Determine when an incident is reportable.
- 5.1.6 Recognize legal responsibilities, scope of practice, and implications of actions.

Keys to Employability

Basic Skills

- 1. Reading → Locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.
- Writing → Communicates thoughts, ideas, information, and messages in writing; and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.
- 3. Arithmetic/Mathematics → Performs basic computations and approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- 4. Listening → Receives, attends to, interprets, and responds to verbal messages and other cues.
- 5. Speaking → Organizes ideas and communicates orally.

Thinking Skills

- 1. Creative Thinking → Generates new ideas.
- 2. Decision Making → Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- 3. Problem Solving → Recognizes problems and devises and implements plan of action.
- 4. Seeing Things in the Mind's Eye → Organizes, processes symbols, pictures, graphs, objects, and other information.
- 5. Knowing How to Learn → Uses efficient learning techniques to acquire and apply new knowledge and skills.
- 6. Reasoning → Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.





Standard 5: Legal Responsibilities – Understand the legal responsibilities, limitations, and implications of their actions within the health care delivery setting. They will perform their duties according to regulations, policies, laws and legislated rights of clients.

Topic 2: Use Legal Practices.

Student Competencies

<u>Introductory</u>

5.2.1 Identify the legal implications that apply to documentation in healthcare records.

Core

- 5.2.2 Comply with standards of care relating to confidentiality, informed consent, and advanced directives.
- 5.2.3 Follow mandated standards for workplace safety (i.e. Occupational Safety and Health Administration (OSHA), Center for Disease Control (CDC).
- 5.2.4 Identify and comply with clients' rights, including confidentiality, according to the Patient's Rights and Health Insurance Portability and Accountability Act (HIPAA).

Keys to Employability

Technology

- 1. Selects Technology → Chooses procedures, tools, or equipment, including computers and related technologies.
- 2. Applies Technology to Task → Understand overall intent and proper procedures for setup and operation of equipment.
- 3. Maintains and Troubleshoots Equipment → Prevents identifies or solves problems with equipment, including computers, and other technologies.

Resources

- 1. Time → Selects goal-relevant activities, ranks them, allocate time, and prepares and follows schedules.
- 2. Money → Uses or prepares budgets, makes forecasts, keeps records, and makes adjustments to meet objectives.
- 3. Material and Facilities → Acquires, stores, allocates, and uses materials or space efficiently.
- Human Resources → Assesses skills and distributes accordingly, evaluates performance and provides feedback.

Interpersonal

- 1. Participates as a Member of a Team → Contributes to group effort.
- 2. Teaches Others New Skills.
- 3. Serves Clients/Customers → Works to satisfy customers' expectations.
- Exercises Leadership → Communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.
- 5. Negotiates → Works toward agreements involving exchange of resources; resolves divergent interests.
- 6. Works with Diversity → Works well with men and women from diverse backgrounds.





Standard 5: Legal Responsibilities – Understand the legal responsibilities, limitations, and implications of their actions within the health care delivery setting. They will perform their duties according to regulations, policies, laws and legislated rights of clients.

Academic Cross Walk

English Language Arts

9.1.2 Formulate a preliminary thesis statement. 913 Cross-reference information. 9.1.4 Evaluate relevancy of information. Organize information from a variety of sources; 9.1.5 e.g., chronological. Build vocabulary by reading a variety of grade-9.2.16 level texts and applying new vocabulary. 9.4.1 Analyze the audience and adjust message and word wording to suit purpose. Engage in a group discussion. 9.4.4 9.4.5 Use critical listening skills; i.e., reflection. Use conventions of grammar related to parts of 9.6.2 speech; i.e., verb tense and agreement. 9.6.3 Use conventions of punctuation. 10.1.4 Use relevant information. 10.4.1 Analyze the audience and adjust message and wording to suit purpose. 10.4.2 Use appropriate body language in oral presentations. 10.4.3 Formulate questions in response to a verbal message. Analyze the audience and adjust message and 11.4.1 wording to suit the purpose. 11.6.1 Use conventions of grammar, usage, and punctuation to edit and revise. 12.2.8 Use technical language/jargon to decipher meaning 12.3.1 Write business or other formal documents, including resumes, scholarship letters, and letters of inquiry or complaint. 12.4.2 Use tone, inflection, pitch, and emphasis effectively in oral presentations. Analyze the audience and adjust message and 12.4.3 wording to suit the audience while speaking. 12.4.4 Use critical listening responses, such as refutation & commentary, to critique the accuracy of messages. Use conventions of grammar, usage, and 12.6.1 punctuation to edit and revise.

Health

- Know how to assess behaviors and their relationships to health promotion and disease preventions.
- 12.3.4 Know how public health policies and government regulations impact health-related issues.
- 12.4.1 Know how use, misuse, and abuse of alcohol, tobacco, and other drugs can play a role in dangerous behavior and can have adverse consequences for the community.
- 12.4.3 Know how to use a process in decision making as it relates to healthy lifestyles.
- 12.4.4 Know how to apply a problem-solving process to enhance and/or protect health.
- Know how refusal, negations, and collaboration 12.5.4 skills can be used to avoid potentially harmful situations.
- 12.6.6 Know local, state, federal and private agencies that protect and/or inform the consumer.
- 12.7.3 Know how to influence and support others in making positive health choices.





Standard 5: Legal Responsibilities – Understand the legal responsibilities, limitations, and implications of their actions within the health care delivery setting. They will perform their duties according to regulations, policies, laws and legislated rights of clients.

Academic Cross Walk

Mathematics

Science

9-10.4.1	Select appropriate units and scales for problem
	situations involving measurements.
9-10.4.3	Use approximations to compare the standard and
	metric systems of measurement; e.g., a five-
	kilometer race is about three miles long).
9-10.4.4	Given a conversion factor, convert between
	standard and metric measurements.

11-12.7.1 Explain the impact of environmental laws and policies on the environment and society (e.g., waste/pollutants from industry, carbon dioxide emissions, location and number of animals in a feedlot versus water supply).





Standard 6: Ethics – Understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment. They will perform quality healthcare delivery.

Topic 1: Identify Legal and Ethical Boundaries.

Student Competencies

Introductory

- 6.1.1 Differentiate between ethical and legal issues impacting healthcare.
- 6.1.2 Contrast personal, professional and organizational values.

Core

6.1.3 Describe legal and ethical aspects of confidentiality.

Keys to Employability

Interpersonal

- 1. Participates as a Member of a Team → Contributes to group effort.
- 2. Teaches Others New Skills.
- 3. Serves Clients/Customers → Works to satisfy customers' expectations.
- 4. Exercises Leadership → Communicates ideas to justify position, persuades and convinces others, policies.
- 5. Negotiates → Works toward agreements involving exchange of resources; resolves divergent interests.
- 6. Works with Diversity → Works well with men and women from diverse backgrounds.

Personal Qualities

- 1. Responsibility → Exerts a high level of effort and preserves towards goal attainment.
- 2. Self-Esteem → Believes in own self worth and maintains a positive view of self.
- 3. Sociability → Demonstrates understanding, friendliness, adaptability, empathy, and politeness in group setting.
- 4. Self-Management → Assesses self accurately, sets personal goals, monitors progress, and exhibits self-control.
- 5. Integrity/Honesty → Chooses ethical course of action.

Systems

- 1. Understands Systems → Knows how social, organizational, and technological systems work and operates effectively with them.
- Monitors and Corrects Performance → Distinguishes diagnoses deviations in systems' performance and corrects malfunctions.
- 3. Improves or Designs Systems → Suggests modifications to existing systems and develops new or alternative systems to improve performance.





Standard 6: Ethics – Understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment. They will perform quality healthcare delivery.

Topic 2: Exercise Ethical Practice.

Student Competencies

Introductory

6.2.1 Identify and comply with the code of ethics as it relates to specific health care careers.

Introductory

- 6.2.2 Identify and comply with client bill of rights.
- 6.2.3 Report any activity that adversely affects the health, safety or welfare of clients or fellow workers.

Keys to Employability

Information

- 1. Acquires and Evaluates Information
- 2. Organizes and Maintains Information.
- 3. Interprets and Communicates Information.
- 4. Uses Computers to Process Information.





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Standard 6: Ethics – Understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment. They will perform quality healthcare delivery.

Academic Cross Walk

English Language Arts

9.1.2 Formulate a preliminary thesis statement. 9.1.3 Cross-reference information. 9.1.5 Organize information from a variety of sources; e.g., chronological. 9.2.16 Build vocabulary by reading a variety of gradelevel texts and applying new vocabulary. 9.4.4 Engage in group discussion. 9.4.5 Use critical listening skills; i.e., reflection. Use relevant information. 10.1.4 10.4.3 Formulate questions in response to a verbal message. 11.3.1 Gather information supporting multiple sides of an 12.2.8 Use technical language/jargon to decipher meaning. 12.4.4 Use critical listening responses, such as refutation & commentary, to critique the accuracy of

messages.

12.1.4	Understand physical, intellectual, social and cultural
	factors influence attitudes and behaviors regarding
	sexuality.
12.2.4	Understand the social, political, and economic
	effects of disease on individuals, families and the
	communities.
12.3.2	Understand how cultural diversity enriches and
	challenges health behaviors.
12.3.4	Know how public health policies and government
	regulations impact health-related issues.





Standard 6: Ethics – Understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment. They will perform quality healthcare delivery.

Academic Cross Walk

Mathematics

Science

None	9-10.6.3	Explain how emerging technologies (e.g., genetic manipulation, biofuels, and hydrogen fuels) may impact society and the environment.
	9-10.8.1	Identify the role of scientists in theoretical and applied science (e.g., careers, employment possibilities).
	9-10.8.2	Identify the human characteristics that influence scientific advancement (e.g., intellectual honesty, openness, objectivity, curiosity, skepticism, ethical conduct, cooperation).
	11-12.4.2	
	11-12.6.3	





Standard 7: Safety Practices – Understand the existing and potential hazards to clients, coworkers, and themselves.

Standard 7: Safety Practices – Understand the existing and potential hazards to clients, coworkers, and themselves. They will prevent injury or illness through safe work practices and will follow health and safety policies and procedures.

Topic 1: Perform Infection Control.

Student Competencies

<u>Introductory</u>

7.1.1 Identify appropriate cleaning, disinfection, and sterilizing processes.

Core

- 7.1.2 Analyze methods to control the spread of pathogenic microorganisms.
- 7.1.3 Describe and demonstrate principles of infection control
- 7.1.4 Describe and demonstrate standard precautions.
- 7.1.5 Demonstrate hand washing and following medical asepsis principles.
- 7.1.6 Contrast medical and surgical asepsis.

Keys to Employability

Basic Skills

- Reading → Locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.
- Writing → Communicates thoughts, ideas, information, and messages in writing; and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.
- 3. Arithmetic/Mathematics → Performs basic computations and approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- 4. Listening → Receives, attends to, interprets, and responds to verbal messages and other cues.
- 5. Speaking → Organizes ideas and communicates orally.

Thinking Skills

- 1. Creative Thinking → Generates new ideas.
- 2. Decision Making → Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- 3. Problem Solving → Recognizes problems and devises and implements plan of action.
- 4. Seeing Things in the Mind's Eye → Organizes, processes symbols, pictures, graphs, objects, and other information.
- Knowing How to Learn → Uses efficient learning techniques to acquire and apply new knowledge and skills.
- 6. Reasoning → Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.





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Standard 7: Safety Practices – Understand the existing and potential hazards to clients, coworkers, and themselves. They will prevent injury or illness through safe work practices and will follow health and safety policies and procedures.

Topic 2: Practice Personal Safety.

Student Competencies

<u>Introductory</u>

7.2.1 Apply principles of ergonomics.

Core

- 7.2.2 Apply principles of body mechanics.
- 7.2.3 Apply safety standards related to prevention of accidents and injuries.
- 7.2.4 Use personal protective equipment as appropriate to the environment.
- 7.2.5 Manage personal exposure incidents in compliance with facility policy and/or Occupational Safety and Health Administration (OSHA).

Keys to Employability

Technology

- Selects Technology → Chooses procedures, tools, or equipment, including computers and related technologies.
- 2. Applies Technology to Task → Understand overall intent and proper procedures for setup and operation of equipment.
- 3. Maintains and Troubleshoots Equipment → Prevents identifies or solves problems with equipment, including computers, and other technologies.

Resources

- 1. Time → Selects goal-relevant activities, ranks them, allocates time, and prepares and follows schedules.
- Money → Uses or prepares budgets, makes forecasts, keeps records, and makes adjustments to meet objectives.
- 3. Material and Facilities → Acquires, stores, allocates, and uses materials or space efficiently.
- 4. Human Resources → Assesses skills and distributes work accordingly, evaluates performance and provides feedback.





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Standard 7: Safety Practices – Understand the existing and potential hazards to clients, coworkers, and themselves. They will prevent injury or illness through safe work practices and will follow health and safety policies and procedures.

Topic 3: Recognize Environmental Safety.

Student Competencies

<u>Introductory</u>

- 7.3.1 Identify methods of fire and electrical hazard prevention in the health care setting.
- 7.3.2 Take appropriate action during a hazardous material incident.

Core

- 7.3.3 Apply safety principles within given environments to ensure client and worker safety.
- 7.3.4 Prevent accidents by using proper safety techniques.

Keys to Employability

<u>Interpersonal</u>

- 1. Participates as a Member of a Team → Contributes to group effort.
- Money → Uses or Prepares budgets, makes forecasts, keeps records, and makes adjustments to meet objectives.
- 3. Serves Clients/Customers → Works to satisfy customer's expectations.
- 4. Exercises Leadership → Communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.
- 5. Negotiates → Works toward agreements involving exchanging of resources, resolves divergent interests.
- 6. Works with Diversity → Works well with men and women from diverse backgrounds.

Personal Qualities

- 1. Responsibility → Exerts a high level of effort and preserves towards goal attainment.
- 2. Self-Esteem → Believes in own self worth and maintains a positive view of self.
- 3. Sociability → Demonstrates understanding, friendliness, adaptability, empathy, and politeness in group setting.
- 4. Self-Management → Assesses self accurately, sets personal goals, monitors progress, and exhibits self-control.
- 5. Integrity/Honesty → Chooses ethical course of action.





Standard 7: Safety Practices – Understand the existing and potential hazards to clients, coworkers, and themselves. They will prevent injury or illness through safe work practices and will follow health and safety policies and procedures.

Topic 4: Identify Common Safety Hazards.

Student Competencies

Core

- 7.4.1 Identify the purpose of the Material Safety Data Sheets (MSDS).
- 7.4.2 Comply with safety signs, symbols, and labels.

Keys to Employability

Systems

- 1. Understands Systems → Knows how social, organizational, and technological systems work and operates effectively with them.
- 2. Monitors and Corrects Performance → Distinguishes trends, predicts impacts on system operations, diagnoses deviations in systems' performance and corrects malfunctions.
- 3. Improves or Designs Systems → Suggests modifications to existing systems and develops new or alternative systems to improve performance.

Information

- 1. Acquires and Evaluates Information.
- 2. Organizes and Maintains Information.
- 3. Interprets and Communicates Information.
- 4. Uses Computers to Process Information.





Standard 7: Safety Practices – Understand the existing and potential hazards to clients, coworkers, and themselves. They will prevent injury or illness through safe work practices and will follow health and safety policies and procedures.

Topic 5: Use Emergency Procedures and Protocols.

Student Competencies

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Core	
7.5.1	Respond to emergencies according to facility
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	protocol.
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Standard 7: Safety Practices – Understand the existing and potential hazards to clients, coworkers, and themselves. They will prevent injury or illness through safe work practices and will follow health and safety policies and procedures.

Academic Cross Walk

English Language Arts

8.4.3 Speak for different purposes; e.g., group discussions, research presentations and demonstrations. 8.4.4 Use volume, eye contact, rate, pronunciation, and articulation effectively in oral presentations. Formulate a preliminary thesis statement. 9.1.2 Cross-reference information. 9.1.3 9.2.16 Build vocabulary by reading a variety of gradelevel texts and applying new vocabulary. 9.4.1 Analyze the audience and adjust message and wording to suit purpose. 9.4.4 Engage in a group discussion. 9.4.5 Use critical listening skills; i.e., reflection. 10.4.1 Analyze the audience and adjust message and wording to suit the purpose. 10.4.2 Use appropriate body language in oral presentations. Formulate questions in response to verbal message. 10.4.3 12.2.8 Use technical language/jargon to decipher meaning.

- 12.1.4 Understand how physical, intellectual, social & cultural factors influences attitudes and behaviors regarding sexuality.
- Know how to assess behaviors and their relation-12.2.3 ships to health promotion and disease prevention.
- 12.3.3 Understand how the physical environment influences the health of the community.
- 12.4.1 Know how use, misuse and abuse of alcohol, tobacco and other drugs can play a role in dangerous behavior and can have adverse consequences for the community.
- Know how to use a process in decision making as 12.4.3 it relates to a health lifestyle.
- Know how to apply a problem-solving process to 12.4.4 enhance and/or protect health.
- 12.6.6 Know local, state, federal and private agencies that protect and/or inform the consumer.





9-10.4.1

Standard 7: Safety Practices – Understand the existing and potential hazards to clients, coworkers, and themselves. They will prevent injury or illness through safe work practices and will follow health and safety policies and procedures.

Academic Cross Walk

Mathematics

Select appropriate units and scales for problem

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Science

9-10.2.1	Explain how scientific investigations can result in new ideas.
9-10.4.1	Relate cell function to cell structure (i.e., cell wall, cell membrane, nucleus, mitochondria, chloroplast).
9-10.4.2	Relate the functions of cells in multicellular organisms to their cell type (e.g., nerve cells, blood cells, guard cells).
9-10.7.1	Explain how personal health is related to fitness, substance abuse, sexual activity, and nutrition.
9-10.7.2	Identify factors that affect populations (e.g., food webs, carrying capacity, overpopulation, disease, food supply, algal blooms, resources, conservation practices).
11-12.2.1	Explain how new knowledge and methods emerge from different types of investigations and public communication among scientists.





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Standard 8: TEAMWORK – Understand the roles and responsibilities of individual members as part of the healthcare team, including their ability to promote the delivery of quality healthcare. They will interact effectively and sensitively with all members of the healthcare team.

Topic 1: Participate in Healthcare Teams.

Student Competencies

<u>Introductory</u>

- 8.1.1 Recognize characteristics of effective teams.
- 8.1.2 Discuss the team concept in providing quality care.

Introductory

8.1.3 Identify that compromise may be necessary to assure the best outcome.

Keys to Employability

Basic Skills

- Reading → Locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.
- 2. Writing → Communicates thoughts, ideas, information, and messages in writing; and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.
- 3. Arithmetic/Mathematics → Performs basic computations and approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- 4. Listening → Receives, attends to, interprets, and responds to verbal messages and other cues.
- 5. Speaking → Organizes ideas and communicates orally.

Thinking Skills

- 1. Creative Thinking → Generates new ideas.
- 2. Decision Making → Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- 3. Problem Solving → Recognizes problems and devises and implements plan of action.
- 4. Seeing Things in the Mind's Eye → Organizes, processes symbols, pictures, graphs, objects, and other information.
- Knowing How to Learn → Uses efficient learning techniques to acquire and apply new knowledge and skills.
- 6. Reasoning → Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.





Standard 8: Teamwork – Understand the roles and responsibilities of individual members as part of the healthcare team, including their ability to promote the delivery of quality healthcare. They will interact effectively and

Topic 2: Engage in Team Member Participation.

sensitively with all members of the healthcare team.

Student Competencies

<u>Introductory</u>

- 8.2.1 Communicate verbally, non-verbally, and in writing with team colleagues to assure the best results.
- 8.2.2 Apply corrective action to an acknowledged conflict situation.

Core

- 8.2.3 Act responsibly as a team member, completing assigned tasks in a timely, effective manner.
- 8.2.4 Exercise leadership skills.
- 8.2.5 Respect and value the diverse backgrounds, expertise and contributions of all team members to accomplish common goals.

Keys to Employability

Thinking Skills

- 1. Creative Thinking → Generates new ideas.
- 2. Decision Making → Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- 3. Problem Solving → Recognizes problems and devises and implements plan of action.
- 4. Seeing Things in the Mind's Eye → Organizes, processes symbols, pictures, graphs, objects, and other information.
- 5. Knowing How to Learn → Uses efficient learning techniques to acquire and apply new knowledge and skills.
- 6. Reasoning → Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.

Resources

- 1. Time → Selects goal-relevant activities, ranks them, allocates time, and prepares and follows schedules.
- Money → Uses or prepares budgets, makes forecasts, keeps records, and makes adjustments to meet objectives.
- 3. Material and Facilities → Acquires, stores, allocates, and uses materials or space efficiently.
- 4. Human Resources → Assesses skills and distributes work accordingly, evaluates performance and provides feedback.





Standard 8: Teamwork– Understand the roles and responsibilities of individual members as part of the healthcare team, including their ability to promote the delivery of quality healthcare. They will interact effectively and sensitively with all members of the healthcare team.

Academic Cross Walk

English Language Arts

9.2.16	Build vocabulary by reading a variety of grade-
	level texts and applying new vocabulary.
9.4.1	Analyze the audience and adjust message and
	wording to suit purpose.
9.4.4	Engage in group discussion.
9.4.5	Use critical listening skills; i.e., reflection.
10.4.1	Analyze the audience and adjust message and
	wording to suit purpose.
10.4.2	Use appropriate body language in oral
	presentations.
10.4.3	Formulate questions in response to verbal message.
11.4.1	Analyze the audience and adjust message and
	wording to suit the purpose.
11.4.2	Adapt to a variety of speaking and listening
	situations such as formal presentations, oral
	interpretations, and group discussions.
12.4.2	Use tone, inflection, pitch, and emphasis
	effectively in oral presentations.
12.4.3	Analyze the audience and adjust message and
	wording to suit the audience while speaking.

12.2.2	Understand the importance of regular physical
	examinations in detecting and treating disease early.

- Understand the social, political, and economic effects 12.2.4 of disease on individual, families, and communities.
- Know how the community, media and technology can 12.3.1 influence the health of individuals.
- Understand how cultural diversity enriches and 12.3.2 challenges health behaviors.
- 12.3.4 Know how public health policies and government regulations impact health-related issues.
- 12.4.4 Know how to apply a problem-solving process to enhance and/or protect health.
- 12.5.1 Know the role of individual responsibility for enhancing health.
- 12.5.4 Know how refusal, negotiation and collaboration skills can be used to avoid potentially harmful situations.
- Know how to express information and opinions about 12.7.1 health issues.
- 12.7.3 Know how to influence and support others in making positive health choices.
- Know how to work cooperatively when advocating for 12.7.4 healthy communities.





Standard 8: Teamwork – Understand the roles and responsibilities of individual members as part of the healthcare team, including their ability to promote the delivery of quality healthcare. They will interact effectively and sensitively with all members of the healthcare team.

Academic Cross Walk

Mathematics	Science
None	9-10.8.4 Identify theories that have changed over time (e.g., alchemy, atomic structure, model of the solar system).
	11-12.2.4 Formulate and revise explanations based upon scientific knowledge and experimental data.
	11-12.7.4 Explain how science and technology can influence personal, industrial, and cultural decision-making (e.g., organ transplants, cloning, stem cell research, genetic manipulation, use of genetic profile, archeological discoveries, land management, resource management).





Standard 9: Health Maintenance Practice - Understand the fundamentals of wellness and the prevention of disease processes. They will be encouraged to practice preventative health behaviors.

Topic 1: Describe Health Behaviors.

Student Competencies

Introductory

- 9.1.1 Identify behaviors that promote health and wellness, prevention of disease, and prevention of injury.
- 9.1.2 Advocate available preventative health screenings and examinations.
- 9.1.3 Identify safety practices as related to high-risk behaviors.
- 9.1.4 Evaluate the validity of alternative health practices.
- 9.1.5 Identify, describe and assess available health related services in the community that relate to disease prevention and health promotion.

Keys to Employability

Interpersonal

- 1. Participates as a Member of a Team → Contributes to group effort.
- 2. Teaches Others New Skills.
- 3. Serves Clients/Customers → Works to satisfy customer's expectations.
- 4. Exercises Leadership → Communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.

Personal Qualities

- 1. Responsibility → Exerts a high level of effort and perseveres towards goal attainment.
- 2. Self-Esteem → Believes in own self worth and maintains a positive view of self.
- 3. Sociability → Demonstrates understanding friendless, adaptability, empathy, and politeness in group setting
- 4. Self-Management → Assesses self accurately, sets personal goals, monitors progress and exhibits self-control.
- 5. Integrity/Honesty → Chooses ethical courses of action.

Systems

- 1. Understand Systems → Knows how social, organizational and technological systems work and operates effectively with them.
- 2. Monitors and Corrects Performance → Distinguishes trends, predicts impacts on system operations, diagnoses deviations in systems' performance and corrects malfunction.
- 3. Improves or Designs Systems → Suggest modifications to existing systems and develops new or alternative systems to improve performance.





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Standard 9: Health Maintenance Practice – Understand the fundamentals of wellness and the prevention of disease processes. They will be encouraged to practice preventative health behaviors.

Academic Cross Walk

English Language Arts

9.1.3 Cross-reference information. 9.1.4 Evaluate relevancy of information. 9.1.5 Organize information from a variety of sources; e.g., chronological. 9.1.6 Summarize information. Identify and avoid plagiarism. 9.1.7 Use primary and secondary sources. 9.1.8 Use graphic organizer. 9.1.9 9.2.3 Differentiate between a variety of nonfiction genres; i.e., newspapers, magazines, electronic texts, biographies, reference materials, essays, and speeches. 9.2.6 Demonstrate oral reading fluency. 9.2.7 Access prior knowledge to interpret meaning. 9.2.8 Read for a variety of purposes & intents; e.g., to become life-long readers, to model forms of writing, etc. Use decoding/encoding connotation and denotation. 9.2.15 9.2.16 Build vocabulary by reading a variety of grade-level texts and applying new vocabulary. 9.3.1 Write expository texts; e.g., essays, directions & letters. 9.3.2 Write descriptive and narrative compositions; e.g., journals, personal letters, biographies, short stories, autobiographical sketches, one-act plays, and poetry. 9.3.3 Develop a composition detailing an opinion. 9.3.4 Develop a focus for composition; e.g., a theme or unifying idea. Elaborate ideas through word choice and description 9.3.6 using grade-level vocabulary. 9.3.7 Organize and write compositions for self and family. Use supporting details. 9.3.8 9.3.9 Use techniques of characterization in compositions; e.g., description, dialogue, interior monologue. Edit and revise compositions for proper mechanics and 9.3.10 grammar, syntax, diction, and order. Arrange paragraphs in logical progression. 9.3.11 Use technology; e.g., publishing software and graphic 9.3.12 programs, to present written work. 9.4.1 Analyze the audience and adjust message and wording to suit purpose. 9.4.2 Use visual aides effectively in oral presentations. 9.4.3 Use notes and manuscripts to make oral presentations. 9.4.4 Engage in group discussion. 9.4.5 Use critical listening skills; i.e., reflection. 9.5.1 Identify existing and developing media. Access media (e.g., television, film, music, electronic 9.5.2 databases, DVDs, comics, visual and performing arts,

newspapers, & periodicals) for a variety of purposes.

English Language Arts - Cont.

9.6.1	Identify conventions of grammar related to
	sentence structure; i.e., sentence reduction, parallel
	structure, elliptical clauses, conjunctions, and
	clausal and phrasal patterns.
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9.6.2	Use conventions of grammar related to parts of
	speech i.e., verb tense and agreement.
9.6.3	Use conventions of punctuation.
9.6.5	Identify the use of sound patterns in language; i.e.,
	alliteration, assonance, and consonance.
9.6.6	Interpret symbolism.
9.6.7	Locate cultural differences in language; i.e.,
7.0.7	colloquialisms, regional and ethnic dialects, and
	indigenous vocabulary.
9.6.8	
9.0.8	Identify gender perspectives in language; i.e.,
10.1.2	biased language.
10.1.2	Know ways to effectively search electronic
	databases; e.g., defining key terms and using
	limiters to focus a search.
10.1.3	Gather reliable information to support a thesis
10.1.4	Use relevant information.
10.1.5	Organize information from a variety of sources
	into a unified whole.
10.1.6	Use a style sheet, such as MLA or APA, for citing
	primary and secondary sources.
10.1.7	Paraphrase information.
10.1.8	Use note cards.
10.1.9	Develop an outline.
10.1.10	Write a research paper.
10.1.10	
10.1.11	Present research information; e.g., informative.
10.2.1	speech, PowerPoint presentation, video presentation.
10.2.1	Summarize information from nonfiction genres.
10.2.3	Read for a variety of purposes and intents; e.g., to
	become life-long readers, to model forms of
	writing etc.
10.2.7	Apply universal themes to real life situations.
10.3.1	Write expository texts including research papers.
10.3.2	Defend a personal opinion using facts as support.
10.3.3	Use prewriting techniques to generate ideas.
10.3.4	Organize the ideas and details of a composition
	according to purpose.
10.3.5	Elaborate ideas through word choice and
10.3.3	description using grade-level vocabulary.
10.3.6	Organize & write compositions for school & peers.
10.3.0	Use a variety of supporting details.
10.3.8	Use language appropriate to the format of the



composition.



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Standard 9: Health Maintenance Practice – Understand the fundamentals of wellness and the prevention of disease processes. They will be encouraged to practice preventative health behaviors.

Academic Cross Walk

English Language Arts- Cont.

10.3.9	Use precise language to describe people, places and
10.6.10	things.
10.3.10	Use a specific point of view in composition.
10.3.11	Edit and revise compositions with attention to content.
10.3.12	Edit & revise compositions for consistent point of view.
10.3.13	Use knowledge of sentence structure and sentence
	construction to edit and revise text.
10.3.14	Use sentence reduction techniques to revise and edit compositions.
10.4.1	Analyze the audience and adjust message and wording to suit the purpose.
10.4.2	Use appropriate body language in oral presentations.
10.4.3	Formulate questions in response to verbal message.
10.5.1	Identify existing and developing media.
10.5.2	Use media (e.g., television, film, music, electronic
	databases, videos, DVDs, comics, visual and performing
	arts, newspapers, and periodicals) for a variety of purposes.
10.5.3	Evaluate the portrayal of ethnicity and lifestyles
	media messages.
10.5.4	Analyze media messages.
10.6.1	Use conventions of grammar related to sentence
	structure; i.e., sentence reduction, parallel structure,
	elliptical clauses, conjunctions, and clausal and phrasal patterns.
10.6.5	Critique gender perspectives in language; i.e. biased language.
11.1.1	Research topics independently using appropriate sources.
11.1.2	Evaluate and incorporate information from primary
11.1.2	sources; e.g., interviews and surveys.
11.1.3	Evaluate reliability, validity, comprehensiveness,
11.1.3	Verify the quality, accuracy, and usefulness of
11.1.7	information.
11.1.5	Synthesize information in a logical sequence.
11.1.5	author's bias, and author's expertise.
11.1.6	Use quotations effectively.
11.1.7	Evaluate the research process and develop strategies for
1	improving it; e.g., correct use of research format,
	accuracy of research, organization of information and
	use of sources.
11.2.3	Analyze details, facts, and concepts from nonfiction
11.2.0	genres.
11.2.6	Apply prior knowledge of content to interpret meaning
	of text.

English Language Arts - Cont.

11.2.7	Read for a variety of purposes and intents; e.g., to
	become life-long readers, to model forms of writing,
	etc.
11.2.10	Use etymology to define words.
11.3.1	Gather information supporting multiple sides of an
	issue.
11.3.2	Organize the ideas and details of a composition
	according to purpose.
11.3.3	Elaborate ideas through word choice and description
	using grade-level vocabulary.
11.3.4	Organize & write compositions for town, city &
	state.
11.3.5	Use a variety of supporting details.
11.3.6	Use figurative language in writing.
11.3.8	Incorporate visual aids (e.g., graphs, tables, and
11.5.0	pictures) into written work to enhance meaning.
11.4.1	Analyze the audience and adjust message and
11.4.1	wording to suit the purpose.
11.4.2	Adapt to a variety of speaking and listening
11.4.2	situations such as formal presentations, oral
	interpretations, and group discussions.
11.5.1	Identify existing and developing media.
11.5.1	Apply media (e.g., television, film, music, electronic
11.5.2	databases, videos, DVDs, comics, visual and
	performing arts, newspapers, and periodicals) for a
	variety of purposes.
11.5.4	Evaluate the accuracy of details in media messages
11.5.4	Evaluate the impact of media messages on daily life
11.5.5	and politics.
11.6.1	Use conventions of grammar, usage, and
11.0.1	punctuation to edit and revise.
11 6 2	
11.6.2	Apply the use of sound patters in language; i.e.,
12.1.1	alliteration, assonance, and consonance.
12.1.1	Plan a research strategy.
12.1.3	Develop a research question.
12.1.4	Defend research paper or project.
12.1.5	Evaluate the research process and apply strategies to
	a variety of writing purposes; e.g., correct use of
	research format, accuracy of research, organization
1000	of information and use of sources.
12.2.2	Critique details, facts, and concepts from nonfiction
100:	genres.
12.2.4	Read for a variety of purposes and intents; e.g., to
	become life-long readers, to model forms of writing,
1	ata

Use technical language/jargon to decipher meaning.



12.2.8



Standard 9: Health Maintenance Practice – Understand the fundamentals of wellness and the prevention of disease processes. They will be encouraged to practice preventative health behaviors.

Academic Cross Walk

English Language Arts - Cont.

12.3.1	Write business or other formal documents, including		
	resumes, scholarship letters, and letters of inquiry or		
	complaint.		
12.3.2	Write persuasive compositions, including structuring		
	arguments logically, using rhetorical devices, defending		
	positions with evidence, and addressing readers'		
	concerns and biases; e.g., editorials, critical reviews.		
12.3.3	Organize the ideas and details of a composition		
	according to purpose.		
12.3.4	Use variety of sources for supporting details.		
12.3.5	Elaborate ideas through word choice and description		
	using grade-level vocabulary.		
12.3.8	Edit and revise compositions for standard writing		
	conventions and appropriate tone.		
12.3.9	Edit and revise compositions for unity, coherence,		
	clarity, and fluency.		
12.3.10	Edit and revise compositions with an awareness of		
	parallel structures and proper verb tense and agreement.		
12.3.11	Edit and revise compositions for the use of proper		
	clausal and phrasal patterns.		
12.4.1	Evaluate audience based on social characteristics; e.g.,		
	religion, culture, and gender.		
12.4.2	Use tone, inflection, pitch, and emphasis effectively in		
	oral presentations.		
12.4.3	Analyze the audience and adjust message and wording		
	to suit the audience while speaking.		
12.4.4	Use critical listening responses, such as refutation and		
	commentary, to critique the accuracy of messages.		
12.5.1	Identify existing and developing media.		
12.5.2	Create a media project for a purpose.		
12.5.3	Evaluate instances of gender equity and political		
	correctness in media messages.		
12.5.4	Evaluate medial messages in their historical and/or		
	cultural contexts and intended audience.		
12.6.1	Use conventions of grammar, usage, and punctuation to		
	edit and revise.		
12.6.2	Apply figurative language; i.e., allusion, analogy,		
	hyperbole, irony, personification, oxymoron, and		
	paradox.		
	-		

- 12.1.1 Understand the interrelationships of intellectual, emotional, social, spiritual and physical health throughout life.
- 12.1.2 Understand the interrelationships of family and individual health.
- 12.1.3 Understand physical, intellectual, social and spiritual changes that occur throughout life, and how these changes differ among individuals.
- 12.1.4 Understand how physical, intellectual, social and cultural factors influence attitudes and behaviors regarding sexuality.
- Understand the impact of personal health behaviors 12.1.5 on the functioning of body systems.
- 12.1.6 Understand the importance of prenatal and perinatal care of both mother and child.
- 12.2.1 Understand how the body's systems function to prevent or combat disease.
- 12.2.2 Understand the importance of regular physical examinations in detecting and treating disease early.
- 12.2.3 Know how to assess behaviors and their relationships to health promotion and disease prevention.
- 12.2.4 Know how public health policies and government regulations impact health-related issues.
- 12.3.1 Know how the community, media and technology can influence the health of individuals.
- 12.3.3 Understand how the physical environment influences the health of the community.
- 12.4.1 Know how use, misuse and abuse of alcohol, tobacco and other drugs can play a role in dangerous behavior & can have adverse consequences for the community.
- 12.4.2 Know how to set personal health goals and design a specific plan to enhance health for quality of life.
- Know how to use a process in decision making as 12.4.3 it relates to a healthy lifestyle.
- 12.4.4 Know how to apply a problem-solving process to enhance and/or protect health.
- 12.5.1 Know the role of individual responsibility for enhancing health.
- 12.5.2 Know strategies to use for health enhancement.
- 12.6.1 Know how to access health information, products, and services outside the community.
- Know factors that influence personal selection of 12.6.2 health care resources, products, and services.
- 12.6.3 Know how to evaluate resources from home, school and the community that present health information, products, and services.





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Standard 9: Health Maintenance Practice – Understand the fundamentals of wellness and the prevention of disease processes. They will be encouraged to practice preventative health behaviors.

Academic Cross Walk

Health – Cont.

12.6.4 Understand the cost and accessibility of a variety of health care services.

- 12.6.5 Know situations that require professional health services in the areas of prevention, treatment and rehabilitation.
- 12.6.6 Know local, state, federal, and private agencies that protect and/or inform the consumer.
- 12.7.1 Know how to express information and opinions about health issues.
- 12.7.2 Know how individuals can improve or maintain community health.
- 12.7.3 Know how to influence and support others in making positive health choices.
- 12.7.4 Know how to work cooperatively when advocating for healthy communities.

Mathematics

None.





Standard 9: Health Maintenance Practice – Understand the fundamentals of wellness and the prevention of disease processes. They will be encouraged to practice preventative health behaviors.

Academic Cross Walk

Science

9-10.7.1	Explain how personal health is related to fitness,
7 10.7.1	substance abuse, sexual activity, and nutrition.
9-10.7.2	Identify factors that affect populations (e.g., food
7-10.7.2	webs, carrying capacity, overpopulations, disease,
	food supply, algal blooms, resources, conservation
11 10 7 1	practices).
11-12.7.1	Explain the impact of environmental laws and
	policies on the environment and society (e.g.,
	waste/pollutants from industry carbon dioxide
	emissions, location and number of animals in a
	feedlot versus water supply).
11-12.7.4	Explain how science and technology can influence
	personal, industrial, and cultural decision-making
	(e.g., organ transplants, cloning, stem cell research
	genetic manipulation, use of genetic profile,
	archeological discoveries, land management,
	resource management).
	,





Standard 10: Technical Skills – Identify technical skills required for medical careers. They will demonstrate skills and knowledge as appropriate.

Topic 1: Implement Occupational Safety.

Student Competencies

Core

- 10.1.1 Perform standard precautions as described in the rules and regulations set forth by the Occupational Safety and Health Administration (OSHA).
- 10.1.2 Demonstrate and apply safety procedures to protect clients, coworkers, and self.
- 10.1.3 Obtain cardiopulmonary resuscitation (CPR) and first aid certificate of completion.

Keys to Employability

Information

- 1. Acquires and Evaluates Information.
- 2. Organizes and Maintains Information.
- 3. Interprets and Communicates Information.
- 4. Uses Computers to Process Information.

Basic Skills

- Reading → Locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.
- 2. Writing → Communicates thoughts, ideas, information, and messages in writing; and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.
- 3. Arithmetic/Mathematics → Performs basic computations and approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- 4. Listening → Receives, attends to, interprets, and responds to verbal messages and other cues.
- 5. Speaking → Organizes ideas and communicates orally.

Thinking Skills

- 1. Creative Thinking → Generates new ideas.
- 2. Decision Making → Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- 3. Problem Solving → Recognizes problems and devises and implements plan of action.
- 4. Seeing Things in the Mind's Eye → Organizes, processes symbols, pictures, graphs, objects, and other information.
- 5. Knowing How to Learn → Uses efficient learning techniques to acquire and apply new knowledge and skills.
- 6. Reasoning → Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.





Standard 10: Technical Skills – Identify technical skills required for medical careers. They will demonstrate skills and knowledge as appropriate.

Topic 2: Learn Skills Development in Laboratory or Clinical Setting.

Student Competencies

Introductory

- 10.2.1 Identify skills related to activities of daily living.
- 10.2.2 Identify skills associated with rehabilitative care, such as range of motion, positioning, ambulation, transfer and transport of clients safely.
- 10.2.3 Review the structure and composition of the client records.
- 10.2.4 Identify the processes for collection and dissemination of healthcare data.
- 10.2.5 Calculate mathematical problems and measurements common to healthcare.

Core

- 10.2.6 Observe client during care and procedures.
- 10.2.7 Measure and report client vital signs and other indicators of health status.
- 10.2.8 Record and report client health information according to facility protocol as allowed.
- 10.2.9 Report abnormal results.
- 10.2.10 Identify and collect appropriate supplies and equipment necessary for a procedure.
- 10.2.11 Report need for equipment maintenance.
- 10.2.12 Explain procedures to the client.
- 10.2.13 Identify and describe therapeutic diets.
- 10.2.14 Demonstrate skills related to activities of daily living.
- 10.2.15 Demonstrate skills associated with rehabilitative care, such as range of motion, positioning, ambulation, transfer and transport of clients safely.

Keys to Employability

Technology

- Select Technology → Chooses procedures, tools or equipment, including computers and related technologies.
- 2. Applies Technology to Task → Understand overall intent and proper procedures for setup and operation of equipment.
- 3. Maintains and Troubleshoots Equipment → Prevents identifies, or solves problems with equipment, including computers, and other technologies.

Resources

- 1. Time → Selects goal-relevant activities, ranks them, allocates time, and prepares and follows schedules.
- Money → Uses or prepares budget, make forecasts, keeps records, and makes adjustments to meet objectives.
- 3. Material and Facilities → Acquires skills and distributes work accordingly, evaluates performance and provides feedback.

Interpersonal

- 1. Participants as a Member of a Team → Contributes to group efforts.
- 2. Teaches Others New Skills.
- 3. Serves Clients/Customers → Works to satisfy customer's expectations.
- 4. Exercises Leadership → Communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.
- 5. Negotiates → Works toward agreements involving exchanges of resources, resolves divergent interests.
- 6. Works with Diversity → Works well with men and women from diverse backgrounds.





Standard 10: Technical Skills – Identify technical skills required for medical careers. They will demonstrate skills and knowledge as appropriate.

Academic Cross Walk

English Language Arts

	English Language Mis
9.2.3	Differentiate between varieties of nonfiction
	genres; i.e., newspapers, magazines, electronic
	texts, biographies, reference materials, essays, and
	speeches.
9.2.6	Demonstrate oral reading fluency.
9.2.7	Access prior knowledge to interpret meaning.
9.2.8	Read for a variety of purposes and intents; e.g., to
	become life-long readers, to model forms of writing
	etc.
9.2.15	Use decoding/encoding connotation and denotation.
9.2.16	Build vocabulary by reading a variety of grade-
	level texts and applying new vocabulary.
9.4.1	Analyze the audience and adjust message and
	wording to suit purpose.
9.4.2	Use visual aides effectively in oral presentations.
9.4.3	Use notes and manuscripts to make
	presentations.
9.4.4	Engage in group discussion.
9.4.5	Use critical listening skills; i.e., reflection.
9.5.1	Identify existing and developing media.
9.5.2	Access media (e.g., television, film, music, electronic
	databases, videos, DVDs, comics, visual and
	performing arts, newspapers, and periodicals) for a
	variety of purposes.
9.6.1	Identify conventions of grammar related to
	sentence structure, i.e., sentence reduction, parallel
	structure, elliptical clauses, conjunctions, and
0.60	clausal and phrasal patterns.
9.6.2	Use conventions of grammar related to parts of
0.62	speech; i.e., verb tense and agreement.
9.6.3 9.6.5	Use conventions of punctuation.
9.0.3	Identify the use of sound patterns in language; i.e., alliteration, assonance and consonance.
9.6.6	Interpret symbolism.
9.6.7	Local cultural differences in language; i.e.,
7.0.7	colloquialisms, regional and ethnic dialects, and
	indigenous vocabulary.
9.6.8	Identify gender perspectives in language; i.e.,
7.0.0	biased language.
10.2.1	Summarize information from nonfiction genres.
10.2.3	Read for a variety of purposes and intents; e.g., to
	become life-long readers, to model forms of
	writing, etc.
10.2.7	Apply universal themes to real life situations.
10.4.1	Analyze the audience and adjust message and
	wording to suit the purpose.
10.4.2	Use appropriate body language in oral presentations.

English Language Arts - Cont.

10.4.3	Formulate questions in response to a verbal message.		
10.5.1	Identify existing and developing media.		
10.5.2	Use media (e.g., television, film, music, electronic		
	databases, videos, DVDs, comics, visual and		
	performing arts, newspapers, and periodicals) for a		
	variety of purposes.		
10.5.3	Evaluate the portrayal of ethnicity and lifestyles in		
	media messages.		
10.5.4	Analyze media messages.		
10.6.1	Use conventions of grammar related to sentence		
	structure; i.e., sentence reduction, parallel structure,		
	elliptical clauses, conjunctions, and clausal and phrasal		
	patterns.		
10.6.5	Critique gender perspectives in language; i.e., biased		
	language.		
11.2.3	Analyze details, facts, and concepts from nonfiction		
	genres.		
11.2.6	Apply prior knowledge of content to interpret meaning		
	of text.		
11.2.7	Read for a variety of purposes and intents; e.g., to		
	become life-long readers, to model forms of writing,		
	etc.		
11.2.10	Use etymology to define words.		
11.4.1	Analyze the audience and adjust message and wording		
	to suit the purpose.		
11.4.2	Adapt to a variety of speaking and listening situations		
	such as formal presentations, oral interpretations, and		
11.7.1	group discussion.		
11.5.1	Identify existing and developing media.		
11.5.2	Apply media (e.g., television, film, music, electronic databases, videos, DVDs, comics, visual and		
	performing arts, newspapers, and periodicals) for a		
11.5.4	variety of purposes. Evaluate the accuracy of details in media messages.		
11.5.4	Evaluate the accuracy of details in media messages. Evaluate the impact of media messages on daily life		
11.3.3	and politics.		
11.6.1	Use conventions of grammar, usage, and punctuation		
11.0.1	to edit and revise.		
11.6.2	Apply the use of sound patterns in language; i.e.,		
11.0.2	alliteration, assonance, and consonance.		
12.2.2	Critique details, facts and concepts from nonfiction		
· ·-	genres.		
12.2.4	Read for a variety of purposes and intents; e.g., to		
	become life-long readers, to model forms of writing,		
	etc.		

Use technical language/jargon to decipher meaning.



12.2.8



Standard 10: Technical Skills – Identify technical skills required for medical careers. They will demonstrate skills and knowledge as appropriate.

Academic Cross Walk

English Language Arts

12.4.1 Evaluate audience based on social characteristics; e.g., religion, culture and gender. 12.4.2 Use tone, inflection, pitch, and emphasis effectively in oral presentations. 12.4.3 Analyze the audience and adjust message and wording to suit the audience while speaking. 12.4.4 Use critical listening responses, such as refutation & commentary, to critique the accuracy of messages.

- 12.5.1 Identify existing and developing media.
- 12.5.2 Create a media project for a purpose.
- 12.5.3 Evaluate instances of gender equity and political correctness in media messages.
- 12.5.4 Evaluate media messages in their historical and/or cultural contexts and intended audience.
- 12.6.1 Use conventions of grammar, usage, and punctuation to edit and revise.
- 12.6.2 Apply figurative language; i.e., allusion, analogy, hyperbole, irony, personification, oxymoron, and paradox.

- 12.2.2 Understand the importance of regular physical examinations in detecting and treating disease early.
- 12.3.1 Know how the community, media and technology can influence the health of individuals.
- 12.4.3 Know how to use a process in decision making as it relates to a healthy lifestyle.
- 12.4.4 Know how to apply a problem-solving process to enhance and/or protect health.





Standard 10: Technical Skills – Identify technical skills required for medical careers. They will demonstrate skills and knowledge as appropriate.

Academic Cross Walk

9-10.4.4 Given a conversion factor, convert between standard and metric measurements. 9-10.4.5 Use methods necessary to achieve a specified degree of precision and accuracy (i.e., appropriate number of significant digits) in measurement situations. 9-10.5.2 Express relations and functions using a variety of representations of the relations; e.g., table, graph, equation, set of ordered pairs.

Science

9-10.2.1	Explain how science investigations can result
	in new ideas.
9-10.2.6	Design and conduct a guided investigation.
11-12.2.1	Explain how new knowledge and methods
	emerge from different types of investigations
	and public communication among scientists.
11-12.2.2	Select and use appropriate instruments,
	measuring tools and units of measure to
	improve scientific investigations.
11-12.2.5	Use technology and mathematics to improve
	investigations and communications.





Standard 11: Information Technology Application – Use information technology applications. They will

Topic 1: Utilize Communication Technology.

Student Competencies

demonstrate use as appropriate to healthcare applications.

Introductory

- 11.1.1 Use communication technology (fax, E-mail, Internet) to access and distribute data and other information as it applies to health care as well as HIPAA guidelines.
- 11.1.2 Identify adaptive communication techniques to accommodate individual needs.
- 11.1.3 Describe computer applications currently being used in today's healthcare.

Core

- 11.1.4 Process data from various sources to reach conclusions.
- 11.1.5 Plan, prepare and deliver a presentation.

Keys to Employability

Personal Qualities

- 1. Responsibility → Exerts a high level of effort and perseveres towards goal attainment.
- 2. Self-Esteem → Believes in own self worth and maintain a positive view of self.
- 3. Sociability → Demonstrates understanding, friendliness, adaptability, empathy, and politeness in group setting.
- 4. Self-Management → Assesses self accurately, sets personal goals, monitors progress, and exhibits self-control.
- 5. Integrity/Honesty \rightarrow Chooses ethical courses of action.

Systems

- 1. Understand Systems → Knows how social, organizational and technological systems work and operates effectively with them.
- Monitors and Corrects Performance → Distinguishes trends, predicts impacts on system operations, diagnoses deviations in systems' performance and corrects malfunctions.
- 3. Improves or Designs Systems → Suggests modifications to existing systems and develops new or alternative systems to improve performance.

Information

- 1. Acquires and Evaluates Information.
- 2. Organizes and Maintains Information.
- 3. Interprets and Communicates Information.
- 4. Uses Computers to Process Information.





Standard 11: Information Technology Application – Use information technology applications. They will demonstrate use as appropriate to healthcare applications.

Topic 2: Use Referencing Skills.

Student Competencies

Introductory

- 11.2.1 Use procedure manuals and instruction booklets.
- 11.2.2 Determine validity of a resource.

Core

11.2.3 Demonstrate use of medical dictionaries, reference resources and Internet access.

Keys to Employability

Basic Skills

- Reading → Locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.
- Writing → Communicates thoughts, ideas, information and messages in writing; and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.
- 3. Arithmetic/Mathematics → Performs basic computations and approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- 4. Listening → Receives, attends to, interprets, and responds to verbal messages and other cues.
- 5. Speaking \rightarrow Organizes ideas and communicates orally.

Thinking Skills

- 1. Creative Thinking → Generates new ideas.
- 2. Decision Making → Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- 3. Problem Solving → Recognizes problems and devises and implements plan of action.
- 4. Seeing Things in the Mind's Eye → Organizes, processes symbols, pictures, graphs, objects, and other information.
- Knowing How to Learn → Uses efficient learning techniques to acquire and apply new knowledge and skills.
- 6. Reasoning → Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.





Standard 11: Information Technology Application – Use information technology applications. They will demonstrate use as appropriate to healthcare applications.

Academic Cross Walk

English Language Arts

	.8
9.2.3	Differentiate between a variety of nonfiction genres; i.e.,
	newspapers, magazines, electronic texts, biographies,
	reference materials, essays, and speeches.
9.2.6	Demonstrate oral reading fluency.
9.2.7	Access prior knowledge to interpret meaning.
9.2.8	Read for a variety of purposes and intents; e.g., to become
	life-long readers, to model forms of writing, etc.
9.2.15	Use decoding/encoding, connotation, and denotation.
9.2.16	Build vocabulary by reading a variety of grade-level texts
9.3.1	and applying new vocabulary. Write expository texts; e.g., essays, directions, and letters.
9.3.1	Write descriptive and narrative compositions; e.g.,
7.3.2	journals, personal letters, biographies, short stories,
	autobiographical sketches, one-act plays, poetry.
9.3.3	Develop a composition detailing an opinion.
9.3.4	Develop a focus for composition; e.g., a theme or unifying
	idea.
9.3.6	Elaborate ideas through word choice and description using
	grade-level vocabulary.
9.3.7	Organize and write compositions for self and family.
9.3.8	Use supporting details.
9.3.9	Use techniques of characterization in compositions; e.g.,
9.3.10	description, dialogue, interior, monologue. Edit and revise compositions for proper mechanics and
9.3.10	grammar, syntax, diction, and order.
9.3.11	Arrange paragraphs in logical progression.
9.3.12	Use technology; e.g., publishing software and graphic
	programs, to present written work.
9.4.1	Analyze the audience and adjust message and wording to
	suit purpose.
9.4.2	Use visual aides effectively in oral presentations.
9.4.3	Use notes and manuscripts to make oral presentations.
9.4.4	Engage in group discussions.
9.4.5 9.6.1	Use critical listening skills; i.e., reflection. Identify conventions of grammar related to sentence
9.0.1	structure; i.e., sentence reduction, parallel structure,
	elliptical clauses, conjunctions, and clausal and phrasal
	patterns.
9.6.2	Use conventions of grammar related to parts of speech;
	i.e., verb tense and agreement.
9.6.8	Identify gender perspectives in language; i.e., biased
	language.
10.2.1	Summarize information from nonfiction genres.
10.2.3	Read for a variety of purposes and intents; e.g., to
	become life-long readers, to model forms of writing,
	etc.

English Language Arts - Cont.

10.2.7	Apply universal themes to real life situations.		
10.3.1	Write expository texts including research papers.		
10.3.2	Defend a personal opinion using facts as support.		
10.3.3	Use prewriting techniques to generate ideas.		
10.3.4	Organize the ideas and details of a composition		
	according to purpose.		
10.3.5	Elaborate ideas through word choice and description		
	using grade-level vocabulary.		
10.3.6	Organize & write compositions for school & peers.		
10.3.7	Use a variety of supporting details.		
10.3.8	Use language appropriate to the format of the		
	composition.		
10.3.9	Use precise language to describe people, places and		
	things.		
10.3.10	Use a specific point of view in compositions.		
10.3.11	Edit and revise compositions with attention to		
10.0.11	content.		
10.3.12	Edit and revise compositions for consistent point of		
10.0.12	view.		
10.3.13	Use knowledge of sentence structure and sentence		
10.0.10	construction to edit and revise text.		
10.3.14	Use sentence reduction techniques to revise and edit		
10.0.1	compositions.		
10.4.1	Analyze the audience and adjust message and		
101.11	wording to suit the purpose.		
10.4.2	Use appropriate body language in oral presentations.		
10.4.3	Formulate questions in response to a verbal message.		
10.6.1	Use conventions of grammar related to sentence		
10.0.1	structure; i.e., sentence reduction, parallel structure,		
	elliptical clauses, conjunctions, and clausal and		
	phrasal patterns.		
10.6.5	Critique gender perspectives in language; i.e., biased		
	language.		
11.2.3	Analyze details, facts, and concepts from nonfiction		
	genres.		
11.2.6	Apply prior knowledge of content to interpret		
11.2.0	meaning of text.		
11.2.7	Read for a variety of purposes and intents; e.g., to		
	become life-long readers, to model forms of writing,		
	etc.		
11.2.10	Use etymology to define words.		
11.3.1	Gather information supporting multiple sides of an		
	issue.		
11.3.2	Organize the ideas and details of a composition		
	according to nurnose		

Elaborate ideas through word choice and description

using grade-level vocabulary.



11.3.3



Standard 11: Information Technology Application – Use information technology applications. They will demonstrate use as appropriate to healthcare applications.

Academic Cross Walk

English Language Arts – Cont.

11.4.1	Analyze the audience and adjust message and wording
	to suit the purpose.
11.4.2	Adapt to a variety of speaking and listening situations
	such as formal presentations, oral interpretations, and
	group discussions.
11.6.1	Use conventions of grammar, usage, and punctuation to
	edit and revise.
11.6.2	Apply the use of sound patterns in language; i.e.,
1110.2	alliteration, assonance, and consonance.
12.2.2	Critique details, facts, and concepts from nonfiction
12.2.2	genres.
1224	
12.2.4	Read for a variety of purposes and intents; e.g., to
	become life-long readers, to model forms of writing,
	etc.
12.2.8	Use technical language/jargon to decipher meaning.
12.3.1	Write business or other formal documents, including
	resumes, scholarship letters, and letters of inquiry or
	complaint.
12.3.2	Write persuasive compositions, including structuring
	arguments logically, using rhetorical devices, defending
	positions with evidence, and addressing readers'
	concerns and biases; e.g., editorial, critical reviews.
12.3.3	Organize the ideas and details of a composition
12.3.3	according to purpose.
12.3.4	Use variety of sources for supporting details.
12.3.5	Elaborate ideas through word choice and description
12.3.3	using grade-level vocabulary.
12.3.8	
12.3.6	Edit and revise compositions for standard writing
10.20	conventions and appropriate tone.
12.3.9	Edit and revise compositions for unity, coherence,
	clarity and fluency.
12.3.10	Edit and revise compositions with an awareness of
	parallel structures and proper verb tense and agreement.
12.3.11	Edit and revise compositions for use of proper clausal
	and phrasal patterns.
12.4.1	Evaluate audience based on social characteristics; e.g.
	religion, culture, and gender.
12.4.2	Use tone, inflection, pitch, and emphasis effectively in
	oral presentations.
12.4.3	Analyze the audience and adjust message and wording
	to suit the audience while speaking.
12.4.4	Use critical listening responses, such as refutation and
12. 1.7	commentary, to critique the accuracy of messages.
12.6.1	
12.0.1	Use conventions of grammar, usage, and punctuation to
12.62	edit and revise.
12.6.2	Apply figurative language; i.e., allusion, analogy,
	hyperbole, irony, personification, oxymoron, and
	paradox.

12.3.1	Know how the community, media and technology
	can influence the health of individuals.
12.4.4	Know how to apply a problem-solving process to enhance and/or protect health.
12.6.1	Know how to access health information, products,
	and services outside the community.
12.6.3	Know how to evaluate resources from home, school, and the community that present health information, products and services.





Standard 11: Information Technology Application – Use information technology applications. They will demonstrate use as appropriate to healthcare applications.

Academic Cross Walk

Mathematics

Science

None	9-10.1.1	Explain how models can be used to illustrate scientific principles.
	9-10.1.2	Describe the interaction of components within a
		system (e.g., interactions between living and non-
		living components of an ecosystem, interaction
		between organelles of a cell).
	9-10.1.3	Explain how a system can be dynamic yet may
		remain in equilibrium (e.g., water cycle, rock
	0.40.4.4	cycle, populations).
	9-10.1.4	Describe the relationship between form and
		function (e.g., solids, liquids, gases, cell
		specialization, simple machines, and plate
	0.40.4.7	tectonics).
	9-10.1.5	Explain how classification can be based on the
		relationship between form and function (e.g.,
		elements and compounds, biological
	9-10.1.6	classifications, types of clouds).
	9-10.1.0	Identify principles governing evolution and
		equilibrium within system (e.g., cause and effect positive and negative feedback).
	9-10.2.2	Use appropriate safety equipment and precautions
	9-10.2.2	during investigations (e.g., goggles, apron, eye
		wash station).
	9-10.2.6	Design and conduct a guided investigation.
	9-10.2.7	Maintain clear and accurate records of
	7 10.2.7	scientific investigations.
	9-10.6.1	Use appropriate technologies and techniques to
	7 10.0.1	solve a problem (e.g., computer-assisted tools,
		Internet, research skills).
	9-10.6.2	Explain how scientific principles have been used
		to create common technologies (e.g., household
		appliances, automotive parts, agricultural
		equipment, textiles, fabrics, computers, Internet
		resources, CD-ROMs).
	9-10.6.3	Explain how emerging technologies (e.g., genetic
		manipulation, biofuels, and hydrogen fuels) may
		impact society and the environment.
	11-12.2.6	Analyze data using appropriate strategies (e.g.,
		interpolation, and extrapolation of data,
		significant figures, dimensional analysis).
	11-12.2.7	Design and conduct an independent investigation.
	11-12.6.1	Select and use appropriate technologies, tools, and
		techniques to solve a problem (e.g., computer-
		assisted tools, Internet, research skills, CBL,
		graphing calculators).
	11-12.6.2	Identify examples of how new technologies
		advance science.





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Academic Cross Walk

Science - Cont.

11-12.8.1 Identify the criteria that scientific explanations must meet to be considered valid (e.g., must be based on consistent and repeatable data, be consistent with experimental and observational evidence about nature, make accurate predictions about systems being studied, be logical, report methods and results, be open to question and reexamination, respect rule of evidence),

